Socket

Bluetooth® Cordless Hand Scanner (CHS)

1D Imager Models — 7Ci, 7Di, 7DiRx

User's Guide

socket mobile

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Other than the above, Socket Mobile can assume no responsibility for anything resulting from the application of information contained in this manual.

Please refrain from any applications of the Socket *Bluetooth* Cordless Hand Scanner that are not described in this manual. Please refrain from disassembling the *Bluetooth* Cordless Hand Scanner. Disassembly of this device will void the product warranty.

You can track new product releases, software updates and technical bulletins by visiting the Socket Mobile website at: http://www.socketmobile.com.

IMPORTANT! The information in this *User's Guide* pertains to 1D imager versions of the Socket *Bluetooth* Cordless Hand Scanner (CHS) hardware, which have the following part numbers:

CHS version	Part Number(s)
7Ci	8550-00062, 8550-00068, 8550-00070, 8550-00071
7Di	8550-00065
7DiRx	8550-00066

- If you have the CHS 7Mi or 7Pi, please refer to the appropriate user's guide at: http://www.socketmobile.com/pdf/data-collection/chs-1d-laser_manual.pdf
- If you have the CHS 7Xi or 7XiRx (with 2D support), please refer to the appropriate user's guide at: http://www.socketmobile.com/pdf/data-collection/chs-7x_ss10-ug.pdf

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1 | INTRODUCTION

Thank you for purchasing the Socket *Bluetooth* Cordless Hand Scanner (CHS) Series 7. The CHS is a portable handheld barcode scanner that is small, light, comfortable to use. 1D imager models of the CHS enable you to scan data from 1D barcodes into a wide variety of computers, smartphones and PDAs.

SCANNER MODELS (1D IMAGER VERSIONS)

Model	Scanning Engine	Durable Exterior Casing	Antimicrobial
7Ci	Linear Imager		
7Di	Linear Imager	✓	
7DiRx	Linear Imager	✓	✓

PACKAGE CONTENTS

Socket *Bluetooth*
Cordless Hand Scanner

USB AC charging kit

2 NiMH
rechargeable
AAA batteries

Lanyard/Belt Clip
retractable tet

PRODUCT REGISTRATION

Socket highly recommends that all customers register their products. Product registration is required to access technical support. You can also opt in for special offers, upgrades, and new product information. Register online at: http://support.socketmobile.com Alternatively, if you install SocketScan 10, you can register the CHS through the software.

SOCKETCARE™ SERVICE PROGRAM

SocketCare is an enhanced service program that features priority technical support, accelerated repair and replacement and more. http://www.socketcare.com/

- SocketCare Plus 2 year - SKU# SC1804-1349
- SocketCare Plus 3 year - SKU# SC1805-1350
- SocketCare Comprehensive Plus – SKU# SC1806-1351 (requires previous purchase of SocketCare Plus 2 or 3 year program)

SYSTEM COMPATIBILITY REQUIREMENTS / COMPATIBLE DEVICES

OS	System Compatibility Requirements / Compatible Devices	*Bluetooth HID Support*	*Bluetooth* SPP Support
Windows PC	• Windows 8, 7, Vista, XP • Microsoft, Toshiba or Broadcom *Bluetooth* stack	✓	✓
Windows RT	Windows RT	✓	×
Windows Embedded Handheld	Windows Embedded Handheld 6.x	✓	✓ Microsoft or Broadcom Bluetooth stack
Windows Phone	Windows Phone 8	✓	×
Apple iOS	iPod touch (5th generation) iPod touch (4th generation) iPod touch (3rd generation) iPhone 5 iPhone 4S iPhone 4 iPhone 3GS iPad mini iPad (3rd generation) iPad 2 iPad	✓	✓
Mac OS*	• Mac OS X 10.4 to 10.6.6 for Mac / MacBook • *Bluetooth* driver v2.24f3 (v1965) or v2.37f1	✓	×
Android OS	Android 2.1 or later	✓ Android 2.2 or later with HID support	✓ Android 2.1 or later
BlackBerry OS	BlackBerry OS 5.0.0.714 or later for Bold 9700 and Bold 9900**	×	✓
QNX	BlackBerry PlayBook	✓	×

**Compatibility verified for latest models at time of testing. Other models or Bluetooth driver versions not tested.*
***Other devices not tested with SocketScan 10 and may require the previous software version.*

ADDITIONAL DOCUMENTATION

Download *Quick Start Guides*, *Command Barcode Sheets*, the *SocketScan Advanced Programming Guide* or other manuals: http://www.socketmobile.com/support/downloads/

About *Bluetooth* HID and SPP Modes

The CHS supports two kinds of *Bluetooth* connections (known as *Bluetooth* profiles): SPP (Serial Port Profile) and HID (Human Interface Device), each with its advantages and disadvantages.

By default, the CHS is set to HID mode for Keyboard devices, which requires no software installation.

For better performance, Socket highly recommends that you use SPP mode or iOS mode (especially if scanning barcodes that contain a lot of data).

Feature	CHS with HID mode	CHS in SPP mode for Android, Windows, BlackBerry	CHS in iOS mode
No software installation required	✓	×	×
Supports SocketScan 10 software with Socket EZ Pair	×	✓	×
Non-printable ASCII, UNICODE support	×	✓	✓
International keyboard support	✓ French, German, Spanish	✓ as supported by OS	✓ as supported by OS
Parsing / data checks (with SocketScan 10 SDK)	×	✓	✓
Binary data (with SDK)	×	✓	✓
Scanner configuration methods	Special barcodes	Scanner Settings app or special barcodes	Scanner Settings app or special barcodes
Scanner configuration options	Limited configuration options	Many configuration options	Many configuration options
Barcodes containing a lot of data	Less efficient communications may lead to slower performance	More efficient data communications	More efficient data communications

To change modes, use the ***Command Barcodes*** in Appendix E.

To learn more about HID and SPP, please read our white paper:
http://www.socketmobile.com/pdf/techbrief/socketscan-10-sdk_white-paper.pdf

About SocketScan 10 Software

SocketScan™ 10 keyboard wedge software for Android, Windows and BlackBerry OS enters scanned data directly into any program as if the data were manually typed. It includes a utility for configuring Prefix/Suffixes, sounds, symbologies, and other settings for the CHS. Download the latest software free from: http://www.socketmobile.com/support/downloads/

Software for Bluetooth SPP mode only. No software installation required for HID mode.

SocketScan 10 keyboard wedge software is designed for scanning 7 bit ASCII data. For Unicode, DoubleByte, Multibyte (e.g., for Japanese or Chinese) or binary data, use the SocketScan 10 SDK to convert the data before it is sent to your application.

About SocketScan 10 SDK

If you are a developer who would like to add support for the CHS to your mobile application, Socket offers the SocketScan 10 SDK with support for Apple iOS, Android, Windows, and BlackBerry OS.

The SDK is available to members of the Socket Mobile Developer Program ($19.95.year). For more information: http://developer.socketmobile.com/

Accessories

	Accessory	SKU Number
	Charging Cradle with Latch	For 7Ci: SKU# AC4054-1381 For 7Di: SKU# AC4055-1382 For 7DiRx: SKU# AC4058-1415
	USB A Male to DC Plug Cable	SKU# AC4051-1192
	Car Charger	SKU# AC4057-1384
	AC Power Supply with USB Charging Cable	SKU# AC4058-1415
	Protective Carrying Case / Belt Holster	From Taylor Made Cases SKU# TM-HS650-KT
	Waterproof Skin	From Viziflex Seels For 7Ci: SKU# SMS03 For 7Di/7DiRx: SKU# SMS01

For more information on Socket accessories for the CHS, please visit: http://ww1.socketmobile.com/products/bluetooth-scanners/accessories-bt.aspx

For more information on accessories from Taylor Made Cases, Viziflex Seels or other Socket partners, please visit: http://ww1.socketmobile.com/products/star/custom-cases.aspx

HARDWARE FEATURES

Product Diagram

Antimicrobial Protection (CHS 7DiRx only)

The CHS 7DiRx is made with antimicrobial materials to provide an extra layer of protection to the devices against the multiplication and spread of potentially harmful bacteria and microbes. Socket Mobile recommends using Sani-Cloth® Plus brand disposable cloth wipes as the standard disinfectant wipe for the CHS 7DiRx. For more information about the wipes, please visit: http://www.pdipdi.com

Do not use a bleach-based or Dispatch® brand cloth wipes, as they negate all antimicrobial properties that have been added to the device.

To clean the scanner window, use an eye lens cleaner or clean, soft cloth.

Status Indicator LED

LED	LED Activity	Meaning
Bluetooth (Blue)	1 blink per second	*Bluetooth* radio is on but not connected
	1 blink per 3 seconds	CHS connected to host device
Good Read (Green)	On	Data successfully scanned and transmitted to host device
	On and connected to charger	Battery full
Battery (Red)	Blinking	20% or less battery capacity remaining
	Off	Off or Good Battery status

Status Indicator Beeps

Beep Pattern	Meaning
2 beeps (low-high)	Power on
2 beeps (high-low)	Power off
1 beep	CHS connected to host device and ready to scan barcodes.
1 beep (low)	You have double-pressed the power button, and the CHS has enabled support for simultaneous scanning and onscreen keyboard entry for Apple iOS
1 beep with green LED (configurable setting)	Data successfully scanned and sent to host device
2 beeps (same tone)	CHS disconnected from host device
1 long beep	CHS unsuccessfully tried 30 times to connect to the last host device it paired with. The CHS will become discoverable.
5 beeps	The CHS detects an internal fault, will reset and power off. If connected to a host computer, the scanner will disconnect during the reset.

Vibrate

Vibrate	Meaning
Vibrate	Power on OR data successfully scanned and sent to host device.

To modify the LED, beep and vibrate settings, you can use the Command Barcodes, or if the CHS supports SPP mode for your OS, the Scanner Settings utility (see chapter for your OS).

Bluetooth Mode Sequence

When the CHS is powered on, its *Bluetooth* mode will gradually change if no connection is made.

Time after turning on CHS	*Bluetooth* mode
0-5 minutes	Discoverable and connectable
5-20 minutes	Connectable
20 minutes	CHS automatically powers off

Simultaneous Use of CHS and Socket Mobile Plug-in Device on the SoMo 655

You can use the CHS and a Socket Mobile plug-in barcode / RFID / magnetic stripe reader simultaneously on a SoMo 655 handheld computer, but, you will need to run two different versions of SocketScan concurrently.

- For the CHS, use SocketScan 10, which you can download from: http://www.socketmobile.com/support/downloads/data-collection/series7/ss10/
- For Socket plug-in devices, use SocketScan 7 (or older), which you can download from: http://www.socketmobile.com/support/downloads/data-collection/series5/

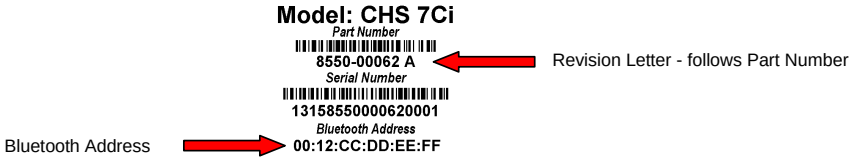
2 | Scanner Setup

Installing Batteries and Attaching the Tether

1. Use a coin or screwdriver to unlock and remove the battery cover. Turn the lock underneath the scanner to a **horizontal** position to unlock.

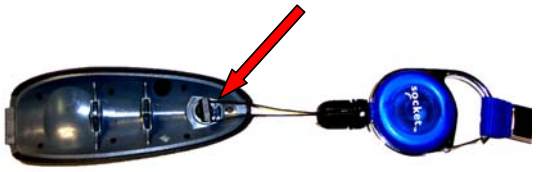
2. Remove the battery cover.

The Bluetooth Address is printed on a label inside the battery compartment. It helps you distinguish your CHS from other CHS scanners. If you install SocketScan 10, you can also check the Bluetooth Address in Scanner Settings.



3. Install the batteries in their correct positions, as indicated by the +/- symbols.

4. If desired, attach the tether to the battery cover. Wrap the string loop around the inside part of the lock.



5. Replace the battery cover and turn the lock to a **vertical** position to secure it.

WARNING: Installing the batteries incorrectly may damage the scanner.

WARNING: Charge ONLY NiMH batteries in the CHS. Charging alkaline or other battery types will damage the scanner. Remove the batteries if the CHS will not be used for more than 30 days.

The red Battery Status LED will not function properly if standard AAA non-rechargeable batteries are being used.

Property	Specification
Battery Type	NiMH rechargeable AAA
Battery Life	~19 hours to scan 15,000+ barcodes for new, fully charged batteries

Assembling the AC Adapter

If you wish to charge the CHS with the AC adapter, the correct plug for your region must be attached first. Four different plugs are included. Simply find the correct plug for your region and slide it into the head of the adapter until it latches. Plug in the cable, making sure the USB connector is oriented the correct way.

CHARGING THE SCANNER

The CHS must be fully charged before first use. Use the AC adapter to charge from a wall outlet. Initial charging takes about 5 hours with an AC adapter. Optional charging accessories are also available.

The LED will be solid red while charging and green when the batteries are full.

Connecting the USB cable to a PC to charge the CHS is not reliable and not recommended.

Included Charging Hardware	• AC adapter with international plugs • USB A Male to DC Plug Cable (2A maximum)
AC Adapter Rating	5V, 2A, positive pole center
Power Jack Connector	4 mm barrel
Optional Charging Hardware	• Charging cradle • Car charger • Mobile Power Pack (available in Americas/Asia Pac) • AC or DC adapter from Socket SoMo Purchase online at: http://ww1.socketmobile.com/products/bluetooth-scanners/accessories-bt.aspx

3 | SETUP FOR APPLE IOS

This chapter explains how to install and use the Socket *Bluetooth* Cordless Hand Scanner (CHS) with Apple iPad, iPad mini, iPhone and iPod touch.

Made for the following Apple devices:

- iPod touch (5th generation)
- iPod touch (4th generation)
- iPod touch (3rd generation)
- iPhone 5
- iPhone 4S
- iPhone 4
- iPhone 3GS
- iPhone 3G
- iPad mini
- iPad (3rd generation)
- iPad 2
- iPad

Before you begin the instructions in this chapter, make sure you have charged the CHS, as described in Chapter 2, "Scanner Setup"

CONNECTION OPTIONS

For Apple iOS, the CHS offers two different connection options. For more information about HID and SPP, please see Scanner Settings.

Bluetooth Mode	Pros	Cons
HID Instructions on next page	• No SocketScan 10 software installation needed	• Limited configuration options • Limited to printable ASCII and some non-printable characters • Less efficient data communications for barcodes containing lots of data • iPhone 3G not supported
iOS (equivalent to SPP) Instructions on page 18	• Apple tested and certified • Many configuration options • Broad character set, including non-printable ASCII, international keyboards • More efficient data communications for barcodes containing lots of data	• Compatible iOS application developed with SocketScan 10 SDK required • No SocketScan 10 keyboard wedge software offered

Socket highly recommends that you use the CHS in iOS mode (equivalent of SPP). Learn more: http://www.socketmobile.com/pdf/techbrief/socketscan-10-sdk_white-paper.pdf.

The screenshots shown in this chapter may differ from your device screen depending on your device type.

OPTION 1: USING THE CHS IN HID MODE

To pair the CHS with your Apple device:

You only need to pair the CHS with your Apple device the first time you try to connect.

By default, the CHS is in HID mode for Keyboard devices. If you changed the CHS to a different mode, refer to the Command Barcodes to change it to the correct mode.

1. Power on the CHS. Press and hold the small power button until the LED turns blue and the CHS beeps twice (low-high).

The LED blinks blue once per second to show that the Bluetooth radio is on but not connected.

2. Tap **Settings** | **Bluetooth**. Turn on *Bluetooth*. A *Bluetooth* device search will begin.

For iOS 5 or earlier, tap **Settings | General | Bluetooth**.

3. Select **Socket CHS [xxxxxx]** (initially it will appear as **Keyboard**).

The characters in brackets are the last six characters of the CHS Bluetooth Address, which is labeled inside the battery compartment.

4. A notification will inform you of a pairing request. Tap **Pair**. The CHS will connect to the Apple device. If prompted, enter the passkey **0000** (four zeroes).

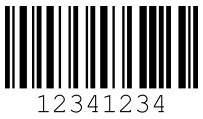
The CHS will beep once after it has connected and is ready to scan barcodes. The LED will also blink blue once every 3 seconds.

The soft keyboard will automatically disappear a few seconds after the CHS connects, because the CHS is detected as a Bluetooth keyboard. To make the on-screen keyboard appear while connected to the CHS, see instructions on page 17.

To scan barcodes:

1. Open your application. Place the cursor where you want to enter data.
2. Hold the CHS about 4 inches (10 cm) from the barcode and press and hold the trigger button. An aiming beam will appear for 3 seconds. Keep your hand steady while scanning.

For example, try scanning the following barcode:



After decoding the barcode and sending it to the computer, by default the CHS will beep once and vibrate, the LED will flash green, and the aiming beam will turn off. You can use the Command Barcodes to modify the beep / LED / vibrate settings.

By default, a carriage return is applied after scanned barcode data is entered. To disable the automatic carriage return, you can use the Command Barcodes (use the Data Editing barcode for disabling suffixes).

If no data is read in a few seconds, the beam will turn off, and you must try again.

To Disconnect:
To disconnect, turn off the CHS. Press and hold the power button for at least 3 seconds, until the CHS beeps twice (high-low) and the blue LED turns off.

After the iPad disconnects from the CHS, the soft keyboard will automatically reappear within a few seconds.

Automatic Reconnection:
After you power on the CHS, it will automatically try to connect to the last computer it paired and connected to. Make sure your computer is in range with *Bluetooth* enabled.

If the CHS is connected to your computer and gets disconnected, it will try to reconnect. Make sure the computer is on and in range. If the CHS cannot reconnect after several attempts, it will emit a long beep. Press the trigger button to restart the reconnection process.

The CHS can only be paired with one device at a time. To use the CHS with a different device, see Appendix F for unpairing instructions.

Simultaneous Scanning and Soft Keyboard Support:

The CHS supports simultaneous use of the barcode scanner and the Apple iOS on-screen keyboard while entering data into an application. This feature is enabled by default and can be modified by scanning a special command barcode.

1. Connect the CHS to your Apple device.
2. Open your application and place the cursor where you want to enter data.
3. You can begin scanning barcodes. To open or close the onscreen keyboard, quickly double-press the CHS power button (like double-clicking a mouse).

After you double-press the power button, the CHS will beep to indicate that the onscreen keyboard was enabled / disabled.

Watch a video: http://www.youtube.com/watch?v=VhtttoC6ROs

OPTION 2: USING THE CHS IN IOS MODE

IMPORTANT! Follow the instructions below ONLY if you are using a compatible iOS application developed with SocketScan 10 SDK!

To view a selected listing of compatible iOS applications developed with SocketScan 10 SDK, please visit: http://www.socketmobile.com/appstore

The SDK is available to members of the Socket Mobile Developer Program ($19.95 / year). For more information, visit: http://developer.socketmobile.com

The proper setup instructions may vary depending on your application. Follow the instructions provided by your software application developer.

To install the software:

Install a compatible application that was developed with SocketScan 10 SDK onto your device. Follow the installation instructions from the application developer.

To pair the CHS with the Apple device:

You only need to pair the CHS with your Apple device the first time you try to connect.

1. Power on the CHS. Press and hold the small power button until the LED turns blue and the CHS beeps twice (low-high).

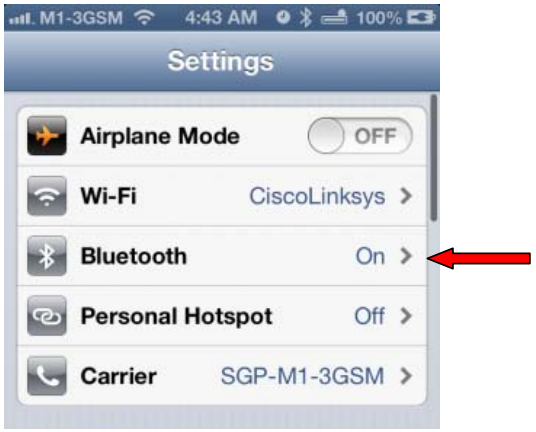
The LED blinks blue once per second to show that the Bluetooth radio is on but not connected.

2. Scan this barcode to change the CHS to iOS mode. The CHS will beep 3 times.

#FNB00F40002#

3. Open the compatible application that you installed.

4. Enable *Bluetooth* on the Apple device. A *Bluetooth* device search will begin.



5. Select **Socket CHS [xxxxxx].** If prompted, tap **Pair**.

The characters in brackets are the last six characters of the CHS Bluetooth Address, which is labeled inside the battery compartment.

The CHS will beep once after it has connected and is ready to scan barcodes. The LED will also blink blue once every 3 seconds.

To scan barcodes:

1. In your application, place the cursor where you want to enter data.
2. Hold the CHS about 4 inches (10 cm) from the barcode and press and hold the trigger button. An aiming beam will appear for 3 seconds. Keep your hand steady while scanning.

For example, try scanning the following barcode:

12341234

After data is read and sent to the Apple device, by default, the CHS will beep once and vibrate, the LED will flash green, and the beam will turn off.

If no data is read in a few seconds, the beam will turn off, and you must try again.

To Disconnect:

To disconnect, turn off the CHS. Press and hold the power button for at least 3 seconds, until the CHS beeps twice (high-low) and the blue LED turns off.

After the iPad disconnects from the CHS, the soft keyboard will automatically reappear within a few seconds.

Automatic Reconnection:

After you power on the CHS, it will automatically try to connect to the last computer it paired and connected to. Make sure your computer is in range with *Bluetooth* enabled.

If the CHS is connected to your computer and gets disconnected, it will try to reconnect for 45 seconds. Make sure the computer is on and in range. If the CHS cannot reconnect after several attempts, it will emit a long beep. Power cycle the scanner to restart the reconnection process.

The CHS can only be paired with one device at a time. To use the CHS with a different device, see Appendix F for unpairing instructions.

To configure symbology support, beeps, LED, vibrate and other scanner features use the ScannerSettings application available free on Apple App Store at:

http://itunes.apple.com/us/app/scannersettings/id456055932?mt=8

4 | SETUP FOR ANDROID

This chapter explains how to install and use the *Bluetooth* Cordless Hand Scanner (CHS) with a *Bluetooth* enabled device running Android 2.1 and later.

Before you begin the instructions in this chapter, make sure you have installed the batteries (and tether, if desired), and charged the scanner, as described in Chapter 2, "Scanner Setup."

CONNECTION OPTIONS

For Android OS, the CHS offers two different connection options.

Bluetooth Mode	Pros	Cons
HID Instructions on next page	• No SocketScan 10 software installation needed	• Limited configuration options • Limited to printable ASCII and some non-printable characters • Less efficient data communications for barcodes containing lots of data • Compatible only with Android 2.2 and later devices with support for HID Peripheral devices
SPP Instructions on page 26	• Many configuration options • Broad character set, including non-printable ASCII, international keyboards • More efficient data communications for barcodes containing lots of data • Compatible with Android 2.1 and later	• Requires installation of SocketScan 10 keyboard wedge software or an application developed with SocketScan 10 SDK

Socket highly recommends that you use the CHS in SPP mode. Learn more: http://www.socketmobile.com/pdf/techbrief/socketscan-10-sdk_white-paper.pdf.

The instructions in this chapter are based on the Asus Nexus 7 running Android 4.2. Menus will appear differently on different devices.

When SocketScan 10 is running, you can only use the keyboard provided by SocketScan 10. You cannot use SWYPE or any custom keyboards. To enable use of another keyboard, you can use the SocketScan 10 SDK (available separately). http://developer.socketmobile.com/

OPTION 1: USING THE CHS IN HID MODE

Compatible with devices running Android 2.2 and later that support Bluetooth HID connections for Peripheral devices.

To pair the CHS with your Android device:

You only need to pair the CHS with your Android device the first time you try to connect.

1. Power on the CHS. Press and hold the small power button until the LED turns blue and the CHS beeps twice (low-high).

The LED blinks blue once per second to show that the Bluetooth radio is on but not connected.

2. Make sure the CHS is in HID mode for Peripheral Devices.

   First scan this barcode to change the CHS to HID mode.

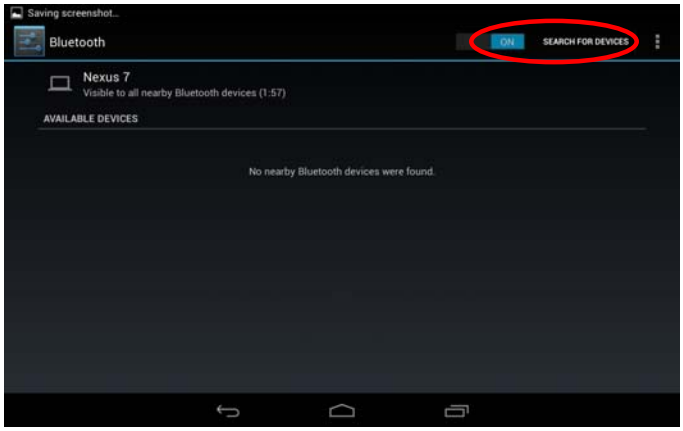
#FNB00F40001#

   Next scan this barcode to change the CHS to HID mode for Peripherals.

#FNB0001000500#

3. Touch **Home** | **Menu** | **Settings** | **Bluetooth**.

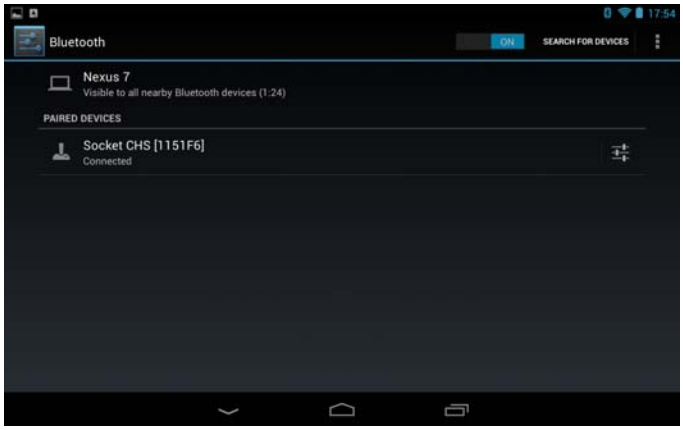
4. Make sure *Bluetooth* is on. Touch **Search for devices**.



5. In the list of found devices, select **Socket CHS [xxxxxx]**.

The characters in brackets are the last six characters of the CHS Bluetooth Address, which is labeled inside the battery compartment.

6. The Android device will begin pairing with your CHS.



The CHS will beep once when it has connected and is ready to scan barcodes. The LED will also blink blue once every 3 seconds.

To scan barcodes:

1. Open your application. Place the cursor where you want to enter data.
2. Press the trigger button to scan a barcode. Make sure the aiming beam extends across the entire width of the barcode.

For example, try scanning the following barcode:

12341234

After decoding the barcode and sending it to the phone/tablet, by default the CHS will beep once and vibrate, the LED will flash green, and the beam will turn off. You can use Command Barcodes to modify the beep / LED / vibrate settings.

By default, a carriage return is applied after scanned barcode data is entered. To disable the automatic carriage return, you can use the Command Barcodes (use the Data Editing barcode for disabling suffixes).

If no data is read in a few seconds, the beam will turn off, and you must try again.

To Disconnect:
To disconnect, turn off the CHS. Press and hold the power button for at least 3 seconds, until the CHS beeps twice (high-low) and the blue LED turns off.

Automatic Reconnection:
After you power on the CHS, it will automatically try to connect to the last phone/tablet it paired and connected to. Make sure your phone/tablet is in range with *Bluetooth* enabled.

If the CHS is connected to your phone/tablet and gets disconnected, it will try to reconnect for a few minutes. Make sure the phone/tablet is on and in range. If the CHS cannot reconnect, you will hear a long beep. Power cycle the scanner to restart the reconnection process.

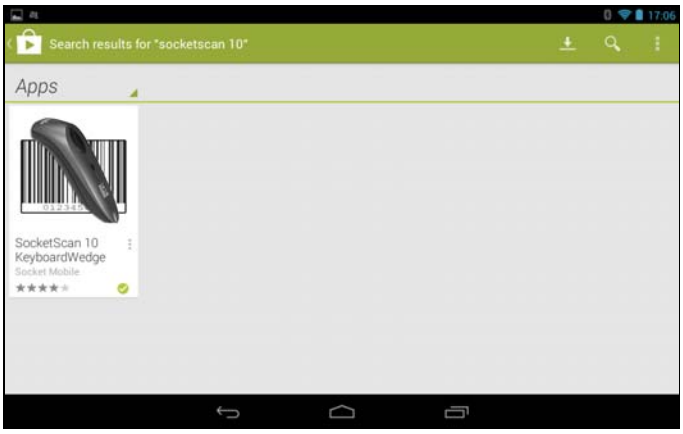
The CHS can only be paired with one device at a time. To use the CHS with a different device, see Appendix F for unpairing instructions.

OPTION 2: USING THE CHS IN SPP MODE

To install the software and configure your device:

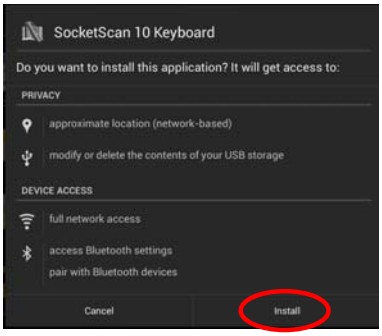
1. If you installed barcode scanning software for your phone camera, scan this barcode to launch the SocketScan 10 Keyboard Wedge page in Play Store.

   Alternatively, you can open Play Store and search for SocketScan 10 Keyboard Wedge.



2. On the SocketScan 10 page in Play Store, tap **Install**.

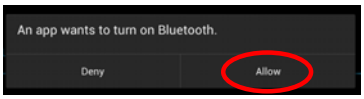
   If prompted, allow the application to access Bluetooth connections and settings and/or modify USB storage / SD card contents.



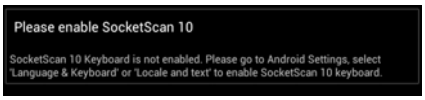
3. Follow the onscreen instructions to download and install SocketScan 10 software.

   If installation does not automatically begin after the download is complete, swipe down the Downloads icon ⬇. In the downloads list, touch **SocketScan10.apk**.

4. After software installation, if Bluetooth is not enabled, SocketScan 10 will prompt you to turn on Bluetooth. Touch **Allow**.



5. You will be prompted to enable SocketScan 10 as your keyboard language. Touch **Back** .


Please enable SocketScan 10
SocketScan 10 Keyboard is not enabled. Please go to Android Settings, select 'Language & Keyboard' or 'Locale and text' to enable SocketScan 10 keyboard.

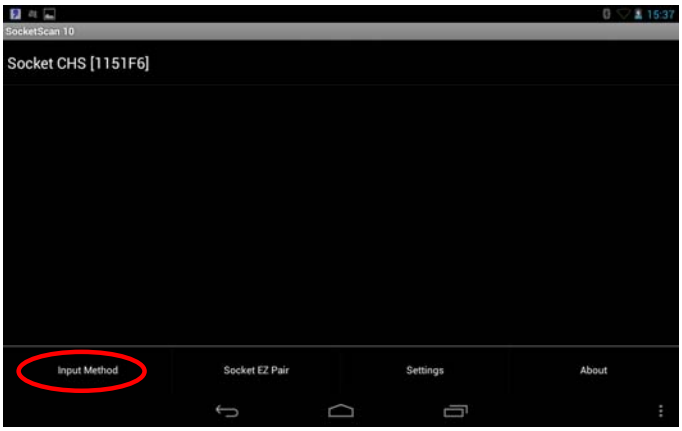
6. Touch **Home** **| Apps | Settings | Language & input**.

7. Under Keyboard & Input Methods, select **SocketScan 10**. Touch **Back** .

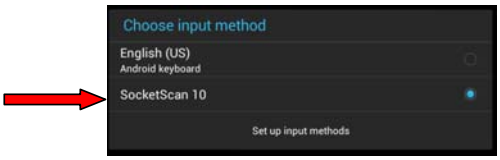
8. Open **SocketScan 10** .

   For some devices, the icon will appear on the Home screen. For other devices, touch **Menu** to access the **Apps** or **Programs** list.

9. Touch **Menu | Input Method**.



10. Select **SocketScan 10**. Touch **Back** .



To pair the CHS with your Android device:

You only need to pair the CHS with your Android device the first time you try to connect.

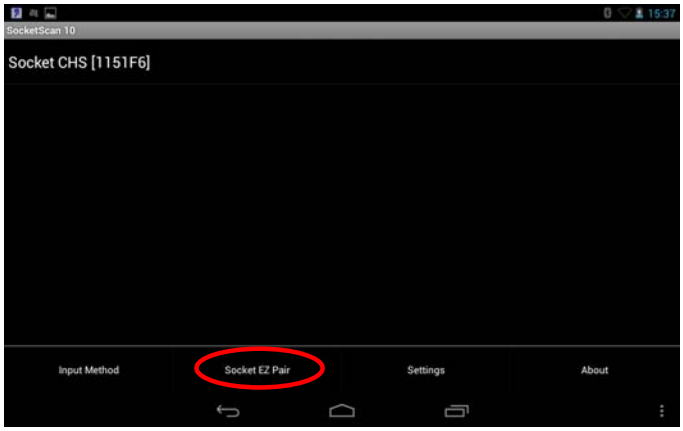
The following instructions are based on Socket EZ Pair, a feature of SocketScan 10 software. For instructions on how to connect by generating and scanning a special barcode, please see Appendix G.

1. Power on the CHS. Press and hold the small power button until the LED turns blue and the CHS beeps twice (low-high).

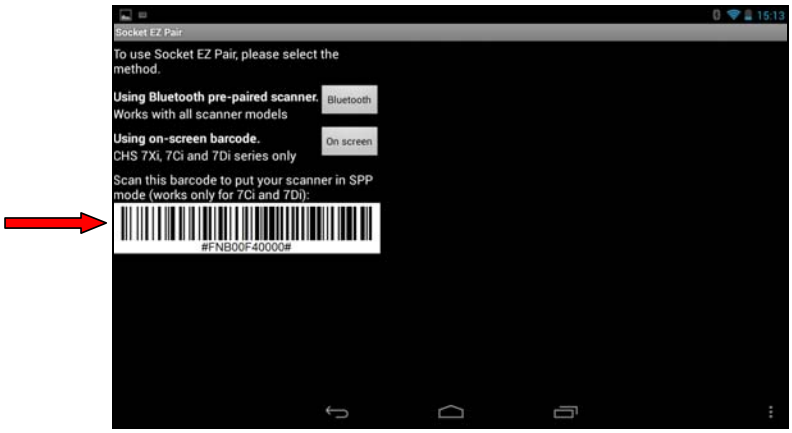
The LED blinks blue once per second to show that the Bluetooth radio is on but not connected.

2. Make sure the device has *Bluetooth* on.

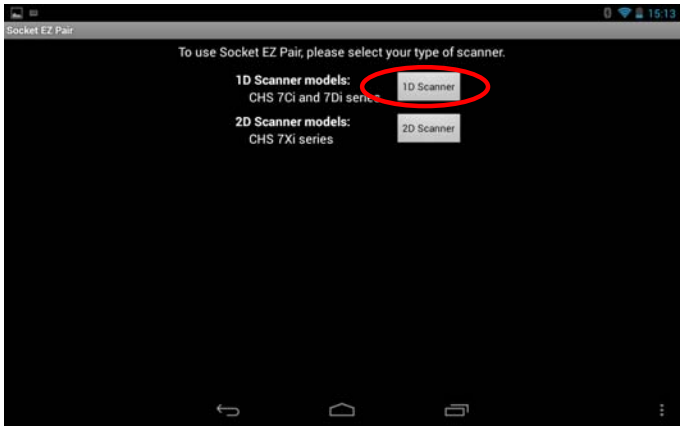
3. In SocketScan 10, touch **Menu | Socket EZ Pair**.



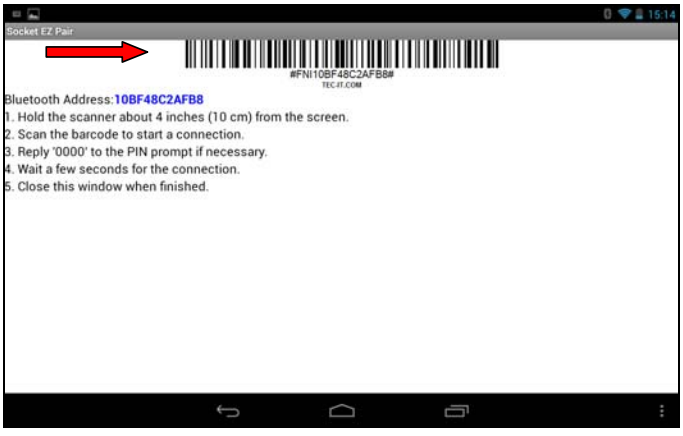
4. Scan the barcode that appears at the bottom of the next screen. The CHS will beep 3 times. Tap **On screen**.


15:13
Socket EZ Pair
To use Socket EZ Pair, please select the method.
Using Bluetooth pre-paired scanner.
Works with all scanner models
Bluetooth
Using on-screen barcode.
CHS 7Xi, 7Ci and 7Di series only
On screen
Scan this barcode to put your scanner in SPP mode (works only for 7Ci and 7Di):
#FNB00F40000#

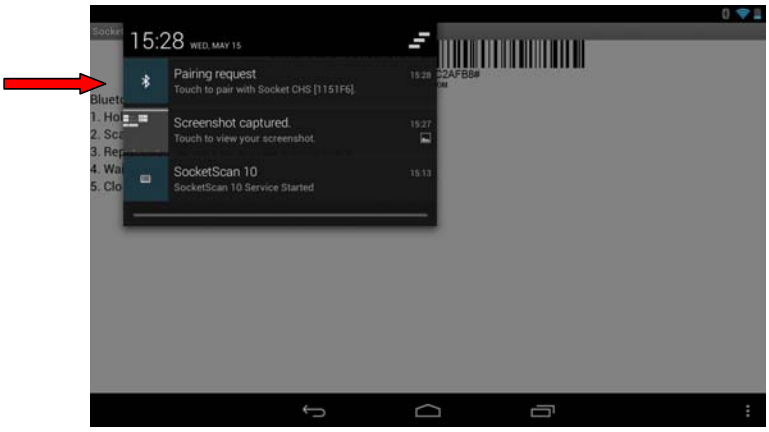
5. Touch **1D Scanner**.



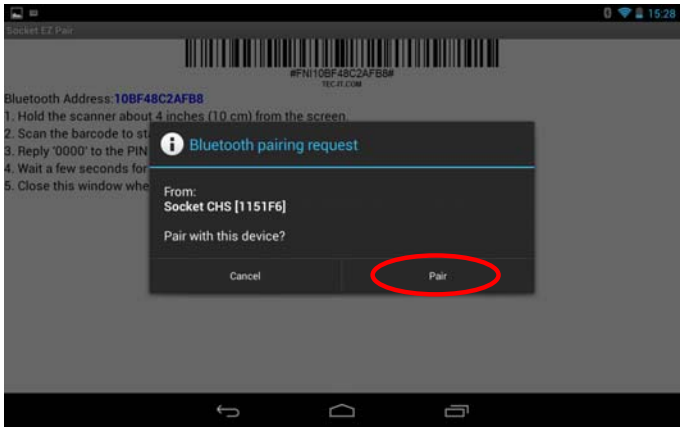
6. Scan the barcode that appears on the next screen. The CHS will beep 3 times.


15:14
Socket EZ Pair
#FNI10BF48C2AFB8#
Bluetooth Address:10BF48C2AFB8
1. Hold the scanner about 4 inches (10 cm) from the screen.
2. Scan the barcode to start a connection.
3. Reply '0000' to the PIN prompt if necessary.
4. Wait a few seconds for the connection.
5. Close this window when finished.

7. Your device will notify you of a pairing request. Swipe down the notification to view the notification list and touch **Pairing request**.



8. In the next screen, touch **Pair**.



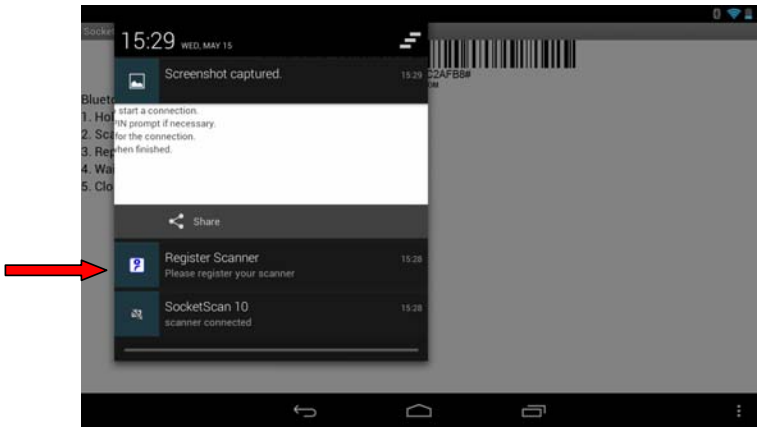
The CHS will beep once when it has connected and is ready to scan barcodes. The LED will also blink blue once every 3 seconds, and the icon at the top of the screen will also change.

Status Bar Icon CHS not connected. CHS connected.

14. Touch **Back** to close Socket EZ Pair.

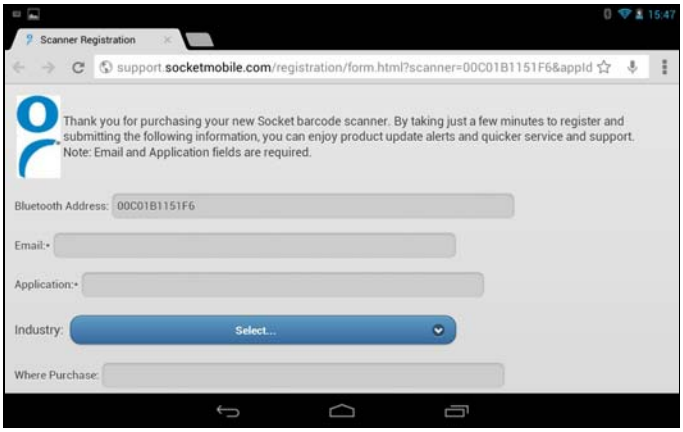
15. A Socket registration icon will appear at the top of the screen. Swipe down the icon.

16. In the notifications list, touch **Register Scanner** to open the scanner registration software.



17. Tap **Yes** to register the scanner or touch **No** to register later.

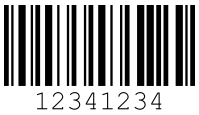
18. If you touched **Yes**, the Scanner Registration form will appear in your browser.


Scanner Registration
support.socketmobile.com/registration/form.html?scanner=00C01B1151F6&appId
Thank you for purchasing your new Socket barcode scanner. By taking just a few minutes to register and submitting the following information, you can enjoy product update alerts and quicker service and support.
Note: Email and Application fields are required.
Bluetooth Address: 00C01B1151F6
Email:*
Application:*
Industry:
Select...
Where Purchase:

To scan barcodes:

1. Open your application. Place the cursor where you want to enter data.
2. Press the trigger button to scan a barcode. Make sure the aiming beam extends across the entire width of the barcode.

For example, try scanning the following barcode:



After decoding the barcode and sending it to the phone/tablet, by default the CHS will beep once and vibrate, the LED will flash green, and the aiming beam will turn off. You can use the Scanner Settings utility (see next page) or Command Barcodes to modify the beep / LED / vibrate settings.

To configure an automatic Carriage Return or Tab after each scan of data, use the Scanner Settings utility (see next page) or Command Barcodes.

If no data is read in a few seconds, the beam will turn off, and you must try again.

To Disconnect:
To disconnect, turn off the CHS. Press and hold the power button for at least 3 seconds, until the CHS beeps twice (high-low) and the blue LED turns off.

Automatic Reconnection: After you power on the CHS, it will automatically try to connect to the last phone/tablet it paired and connected to. Make sure your phone/tablet is in range with *Bluetooth* enabled and SocketScan 10 is running.

If the CHS is connected to your phone/tablet and gets disconnected, it will try to reconnect for a few minutes. Make sure the phone/tablet is on and in range and SocketScan 10 is running. If the CHS cannot reconnect, you will hear a long beep. Power cycle the scanner to restart the reconnection process.

The CHS can only be paired with one device at a time. To use the CHS with a different device, see Appendix F for unpairing instructions.

SCANNER SETTINGS (SPP MODE ONLY)

These special features only work when the CHS is connected to your Android device.

Status Bar Icon

When SocketScan 10 is running, an icon that indicates the CHS connection status will appear at the top of the screen.

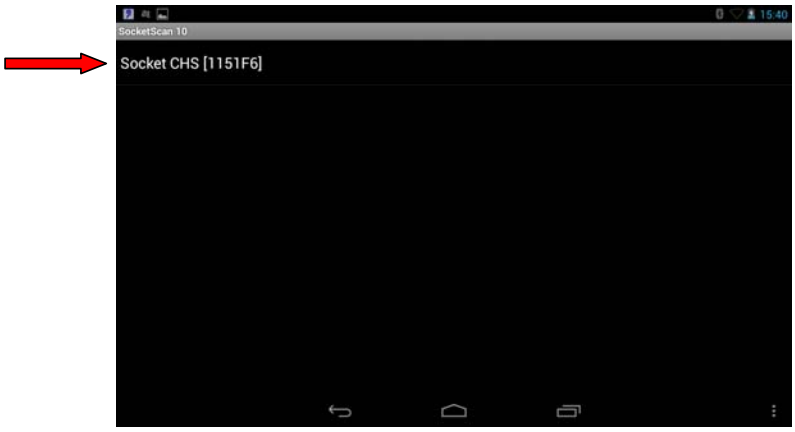
CHS not connected CHS connected

To open Scanner Settings:
In the main screen of SocketScan 10, touch **Scanner Settings**.

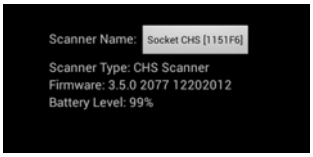
The CHS will close SocketScan 10 Keyboard wedge, disconnect (indicated by 2 beeps (high-low)), open Scanner Settings and reconnect (indicated by a beep).

Basic Scanner Information

1. In the main screen of Scanner Settings, touch **Socket CHS**.

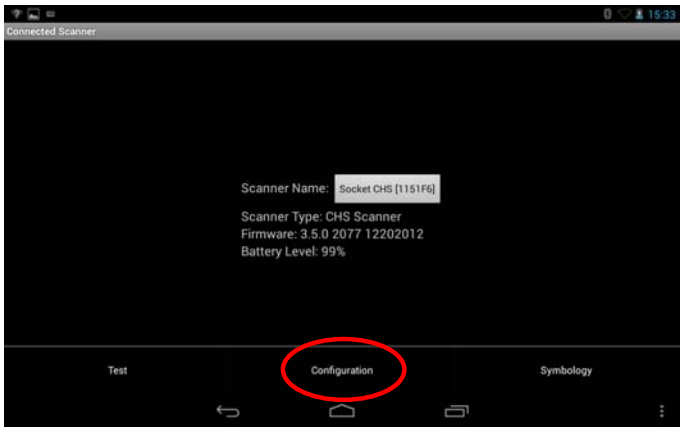


2. The screen will report the *Bluetooth* friendly name, scanner type, firmware version, and battery level of your CHS. To change the *Bluetooth* friendly name, touch **Socket CHS**.



Configuration

1. In the main screen of Scanner Settings, touch **Menu | Configuration**.

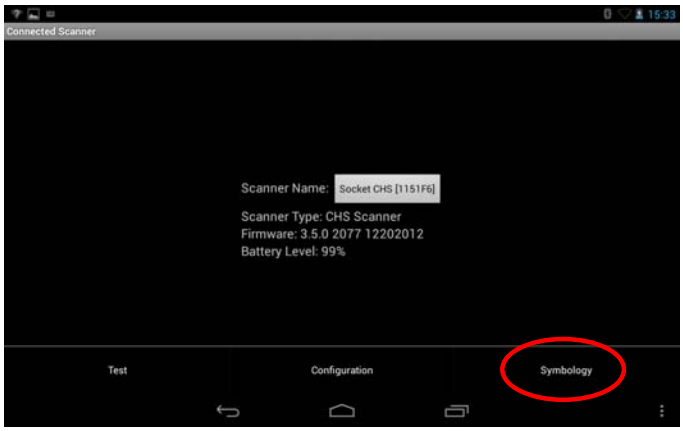


2. In the Configuration screen, enter the appropriate settings:

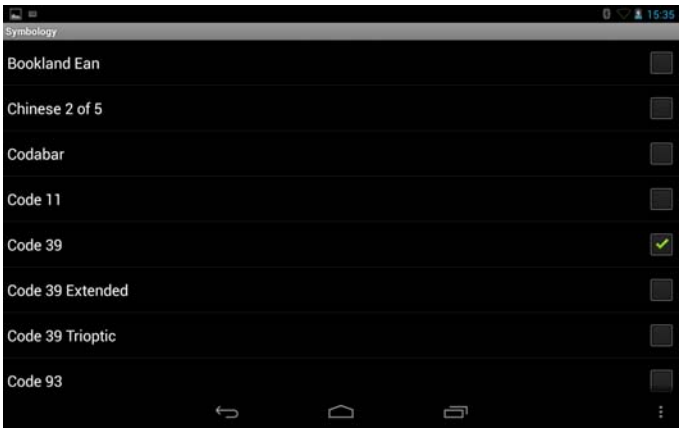
- **Good scan beep**: Select to have the CHS beep to indicate that data was successfully decoded and transmitted to the Android device.
- **Good scan flash:** Select to have the CHS LED turn green to indicate that data was successfully decoded and transmitted to the Android device.
- **Vibrate mode:** Select to have the CHS vibrate to indicate that data was successfully decoded and transmitted to the Android device.
- **Scanned data suffix**: Select if you would like to automatically add a carriage return, tab or select another character or function after each scan of data.

Symbology

1. In the main screen of Scanner Settings, touch **Menu | Symbology**.



2. In the Symbology screen, enable or disable the appropriate symbologies (barcode types).



Enabling all possible symbologies will make the decode process slightly longer.

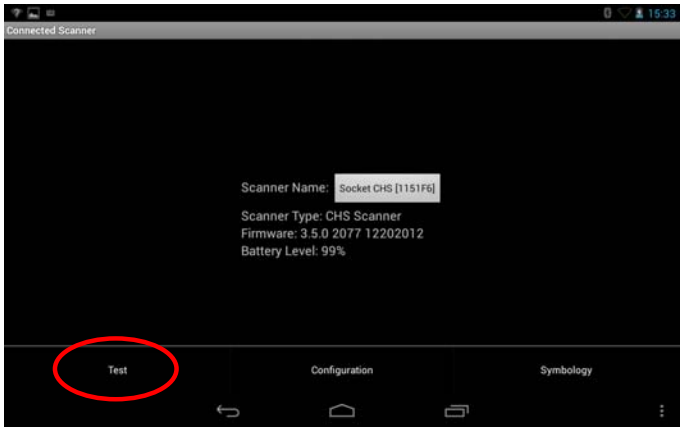
The RSS symbology is now known as GS1 DataBar.

If you would like to read UPC-A symbols, be sure to disable GS1 DataBar so that GS1 DataBar symbols don't get mistakenly decoded.

Test

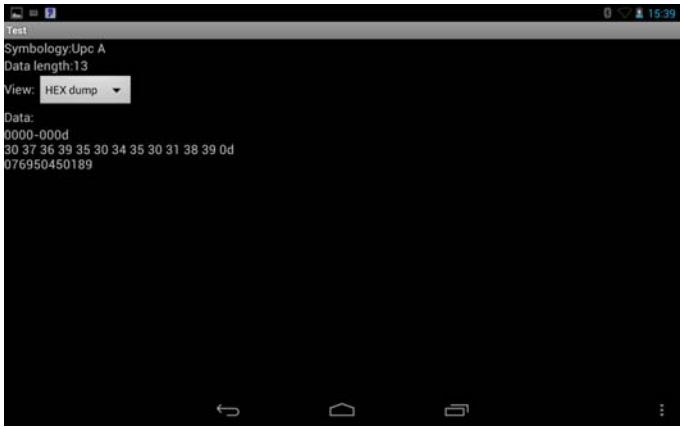
The Test feature reports the properties of a scanned barcode.

1. In the main screen of Scanner Settings, touch **Menu | Test**.



2. In the Scan Window screen, select if you would like scanned data to appear as ASCII or hexadecimal format.

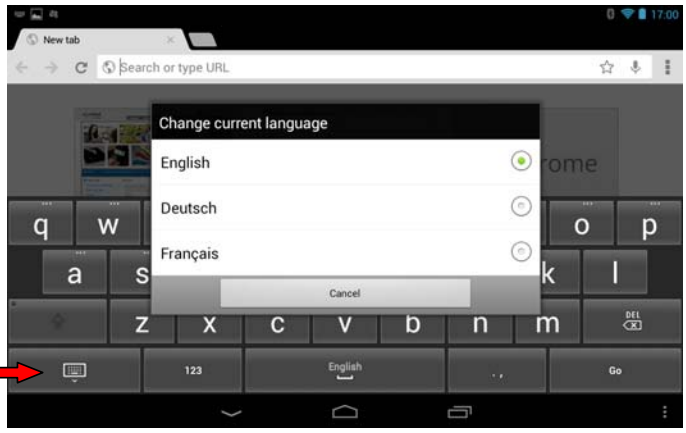
3. Scan a barcode. The Scan Window will report the barcode's symbology (barcode type), data length, and data.



Language Selection

To check your current language selection:

1. Open an internet browser.
2. Touch any input field to bring up the keyboard.
3. Touch and hold the keyboard key to bring up the language selection menu.



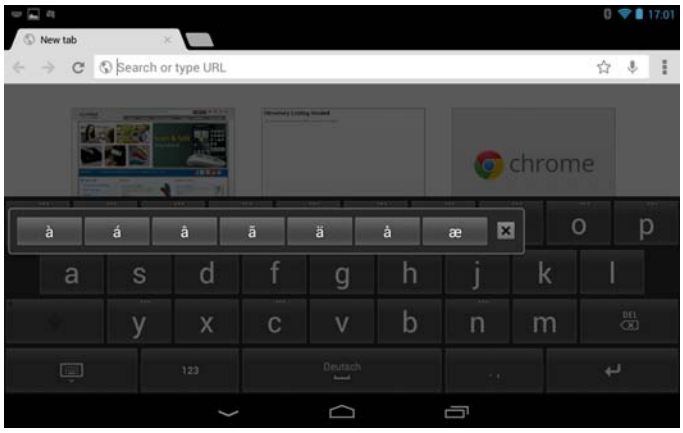
The screen will indicate your current language selection. To change your language selection, select another language and the menu will close.

Accented Characters in the Keyboard

Special characters such as accented letters are hidden from the default keyboard view. Find them by touching and holding keys that have extra dots on top.

To access the additional characters represented by each key:

1. Touch and hold the key. A menu of additional characters will appear.
2. Select the accented character and the menu will close.



SOCKETSCAN 10 SETTINGS (SPP MODE ONLY)

In SocketScan 10, touch **Menu | Settings**

General Settings

- **Enable VIN**: Select this option if you want SocketScan 10 to automatically remove the barcode prefix after you scan a Vehicle Identification Number (VIN).
- **Suffix Settings:** If your barcode contains codes for Carriage Return (CR), Line Feed (LF), TAB and/or Enter Key, select how you would like them to be treated.

  While some applications (e.g., notepad type applications) directly store codes like Carriage Return or Line Feed within a document, some JavaScript or web form applications prefer codes like \r or \n.

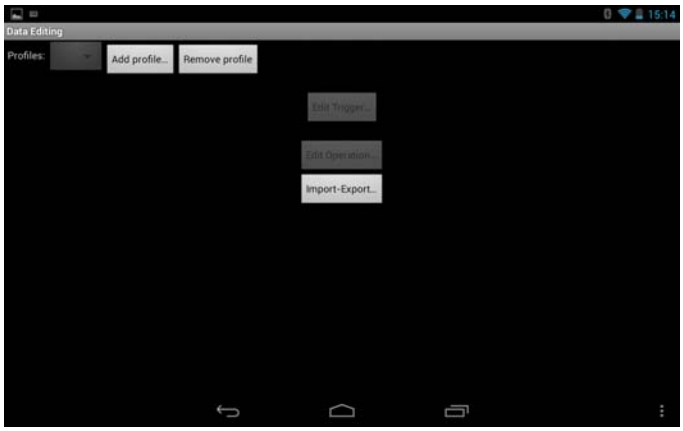
- **Data Editing profile**: If you previously created and saved a data editing profile, select which profile you would like SocketScan 10 to apply when decoding barcodes.

Data Editing – ADVANCED USERS ONLY!

Data Editing enables you to configure SocketScan 10 to automatically manipulate decoded data according to your predefined parameters before entering the information into a software application.

1. In the SocketScan 10 Settings screen, touch **Data Editing**.

2. To add a new Data Editing profile, touch **Add profile...**



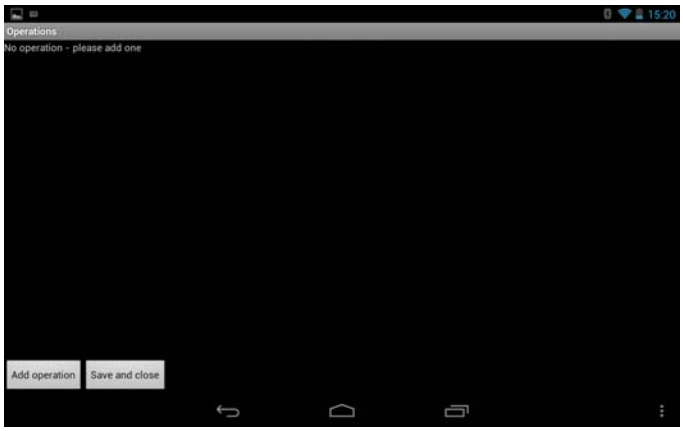
3. Enter a name for your new profile. Touch **OK**.

4. The name of your new profile will appear in the Profiles drop-down menu. Tap **Edit Trigger...**

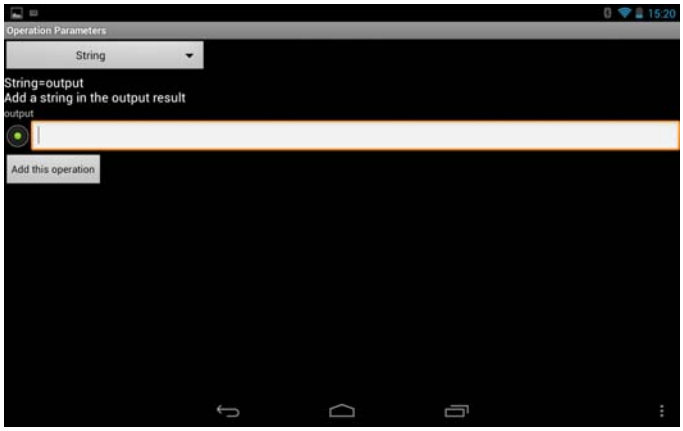
5. By default, your profile will apply to any barcode that is scanned. To limit your profile to only specific types of barcodes, use the fields to define the characteristics of barcodes you wish to target. Touch **Save and close**.

6. Touch **Edit Operation...**

7. Touch **Add operation**.

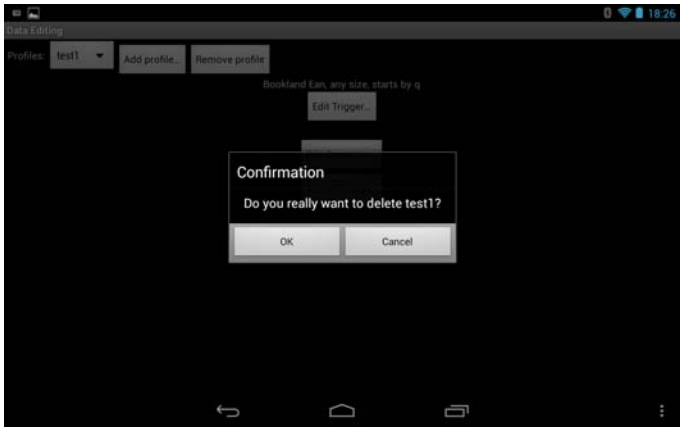


8. Use the fields to define an operation for your profile. Touch **Add this operation**. Repeat as needed to add additional operations.



9. Touch **Import-Export** to import or export a profile, which is saved as an XML file. In the next screen browse to the file location.

10. Touch **Remove profile** to delete a profile. In the Confirmation screen, touch **OK**.



5 | Setup for Windows PC

This chapter explains how to install and use the CHS with a *Bluetooth* enabled computer running Windows 8, RT, 7, Vista or XP

Before you begin the instructions in this chapter, make sure you have installed the batteries and charged the CHS, as described in Chapter 2.

Connection Options

For Windows, the CHS offers two different connection options.

Bluetooth Mode	Pros	Cons
HID Instructions on next page	• No SocketScan 10 software installation needed	• Limited configuration options • Limited to printable ASCII and some non-printable characters • Less efficient data communications for barcodes containing lots of data
SPP Instructions on page 52	• Many configuration options • Broad character set, including non-printable ASCII, international keyboards • More efficient data communications for barcodes containing lots of data	• Requires installation of SocketScan 10 keyboard wedge software or application developed with SocketScan 10 SDK • Not compatible with Windows RT

The CHS has been successfully tested in SPP mode with the Microsoft, Broadcom, and Toshiba Bluetooth stacks. CHS in SPP mode has not been tested on PCs running other Bluetooth stacks and may not work correctly.

Socket highly recommends that you use the CHS in SPP mode. Learn more at: http://www.socketmobile.com/pdf/techbrief/socketscan-10-sdk_white-paper.pdf.

OPTION 1: USING THE CHS IN HID MODE

To prepare the CHS for pairing:

You only need to pair the CHS with your computer the first time you try to connect.

1. Power on the CHS. Press and hold the small power button until the LED turns blue and the CHS beeps twice (low-high).

The LED blinks blue once per second to show that the Bluetooth radio is on but not connected.

2. Scan this barcode to configure the CHS for HID mode for peripherals. Afterwards, the CHS will beep 3 times.

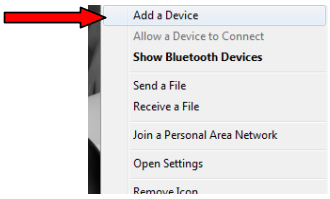
By default, the CHS is in HID Keyboard mode. If the CHS was changed to SPP mode, first use the Command Barcodes to change the CHS to HID mode before scanning the barcode above.

In the next step, you will need to know the type of Bluetooth stack on your computer. Click **Start**. Right-click on **My Computer** and click **Properties | Hardware tab | Device Manager** and identify the manufacturer of your Bluetooth device.

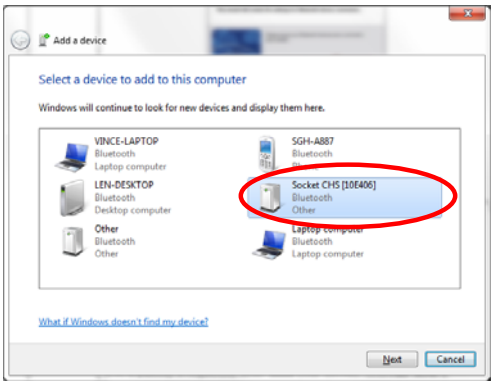
To pair the CHS with a Windows 8 / RT / 7 computer with Microsoft Bluetooth Stack:

1. Turn on *Bluetooth* on your computer. Refer to your computer's documentation for instructions.

2. Right-click on the *Bluetooth* icon in the system tray (notification area). In the pop-up menu, click **Add a Device**. A device search will begin.



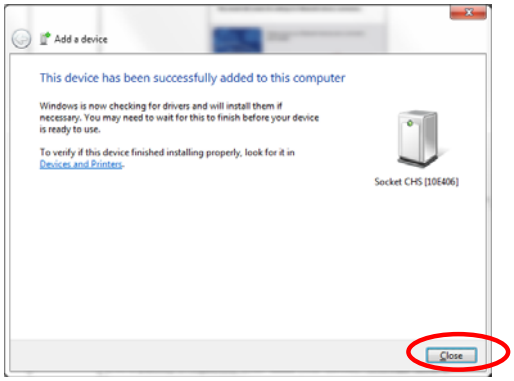
3. In the device list, select **Socket CHS [xxxxxx]** and click **Next**.



The characters in brackets are the last six characters of the CHS Bluetooth Address, which is labeled inside the battery compartment.

4. If prompted, select **Enter the device's pairing code** and enter the passkey **0000** (four zeroes). Click **Next**.

5. In the last screen, click **Close**.


Add a device
This device has been successfully added to this computer
Windows is now checking for drivers and will install them if necessary. You may need to wait for this to finish before your device is ready to use.
To verify if this device finished installing properly, look for it in Devices and Printers.
Socket CHS [10E406]
Close

The CHS will beep once when it has connected and is ready to scan barcodes.
The LED will also blink blue once every 3 seconds.

To pair the CHS with a Windows Vista / XP computer with Microsoft Bluetooth Stack:

1. Turn on *Bluetooth* on your computer. Refer to your computer's documentation for instructions.
2. Right-click on the *Bluetooth* icon in the system tray (notification area). In the pop-up menu, click **Add a *Bluetooth* Device**.
3. In the welcome screen, check the box **My device is set up and ready to be found**. Click **Next**. A device search will begin.

Add Bluetooth Device Wizard
Welcome to the Add Bluetooth Device Wizard
Before proceeding, refer to the "Bluetooth" section of the device documentation. Then set up your device so that your computer can find it:
· Turn it on
· Make it discoverable (visible)
· Give it a name (optional)
· Press the button on the bottom of the device (keyboards and mice only)
My device is set up and ready to be found.
Add only Bluetooth devices that you trust.
< Back
Next >
Cancel

4. In the device list, select **Socket CHS [xxxxxx]**. Click **Next**.

Add Bluetooth Device Wizard
Select the Bluetooth device that you want to add.
LEONARD
New device
LULU-E4200
New device
All other devices
00:13:e0:7a:09:b4
New device
Socket CHS [0C7831]
New device
If you don't see the device that you want to add, make sure that it is turned on. Follow the setup instructions that came with the device, and then click Search Again.
Search Again
< Back
Next >
Cancel

The characters in brackets are the last six characters of the CHS Bluetooth Address, which is labeled inside the battery compartment.

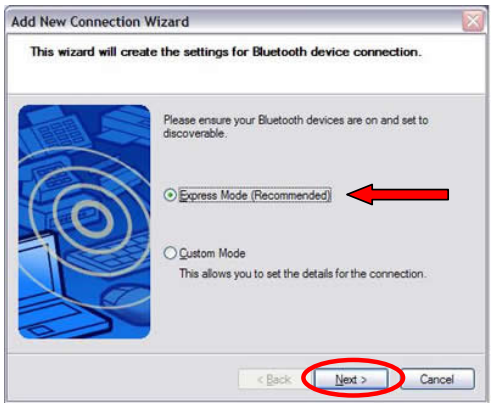
5. If prompted, select **Use the passkey found in the documentation** and enter the passkey **0000** (four zeroes). Click **Next**.

Follow the remaining screens to complete the wizard. In the last screen, click **Finish**.

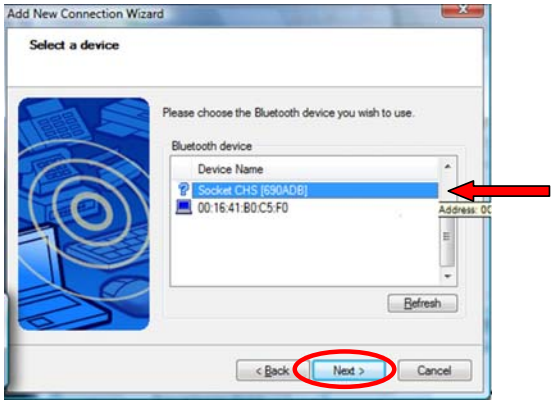
The CHS will beep once when it has connected and is ready to scan barcodes. The LED will also blink blue once every 3 seconds.

To pair the CHS with a Windows computer with Toshiba Bluetooth Stack:

1. Turn on *Bluetooth* on your computer. Refer to your computer's documentation for instructions.
2. Double-click on the *Bluetooth* icon in the system tray (notification area).
3. In *Bluetooth* Settings, click **New Connection**.
4. In the connection wizard, select **Express Mode**. Click **Next**. A device search will begin.


Add New Connection Wizard
This wizard will create the settings for Bluetooth device connection.
Please ensure your Bluetooth devices are on and set to discoverable.
Express Mode (Recommended)
Custom Mode
This allows you to set the details for the connection.
< Back
Next >
Cancel

5. In the device list, select **Socket CHS [xxxxxx]**. Click **Next**.



The characters in brackets are the last six characters of the CHS Bluetooth Address, which is labeled inside the battery compartment.

6. If a passkey is requested, enter **0000** (four zeroes). Click **OK**.

Only computers running Bluetooth 2.0 will prompt for a passkey.

7. Follow the remaining screens to complete the wizard.

The CHS will beep once when it has connected and is ready to scan barcodes. The LED will also blink blue once every 3 seconds.

To pair the CHS with a Windows computer with Broadcom (Widcomm) Bluetooth Stack:

1. Turn on *Bluetooth* on your computer. Refer to your computer's documentation for instructions.
2. Click on the *Bluetooth* icon in the system tray (notification area).
3. On the left side, under *Bluetooth* Tasks, click **Add a *Bluetooth* Device**. A device search will begin.

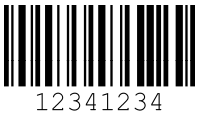
4. In the device list, select **Socket CHS [xxxxxx]**.
5. If a passkey is requested, enter **0000** (four zeroes). Click **Pair Now**.
6. If prompted to select a *Bluetooth* service, select the CHS. Click **Finish**.

Use Bluetooth v2.1 or later for best results. Do not use Quick Connect | Bluetooth serial devices when the CHS is in HID mode.

To scan barcodes:

1. Open your application. Place the cursor where you want to enter data.
2. Press the trigger button to scan a barcode. Make sure the aiming beam extends across the entire width of the barcode.

For example, try scanning the following barcode:



After data is read and sent to the computer, by default, the CHS will beep once and vibrate, the LED will flash green, and the beam will turn off. You can use the Command Barcodes to modify the beep / LED / vibrate settings.

By default, a carriage return is applied after scanned barcode data is entered.

If no data is read in a few seconds, the aiming beam will turn off, and you must try again.

To Disconnect: Turn off the CHS. Press and hold the power button for at least 3 seconds, until the CHS beeps twice (high-low) and the blue LED turns off.

Automatic Reconnection:
After you power on the CHS, it will automatically try to connect to the last computer it paired and connected to. Make sure your computer is in range with *Bluetooth* enabled.

If the CHS is connected to your computer and gets disconnected, it will try to reconnect for a few minutes. Make sure the computer is on and in range. If the CHS cannot reconnect, you will hear a long beep. Turn off the CHS and then turn it back on to restart the reconnection process.

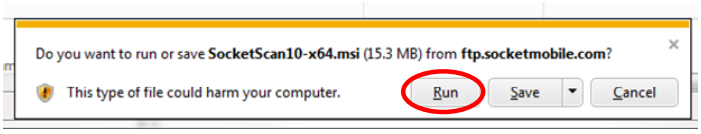
The CHS can only be paired with one device at a time. To use the CHS with a different device, see Appendix F for unpairing instructions.

OPTION 2: USING THE CHS IN SPP MODE

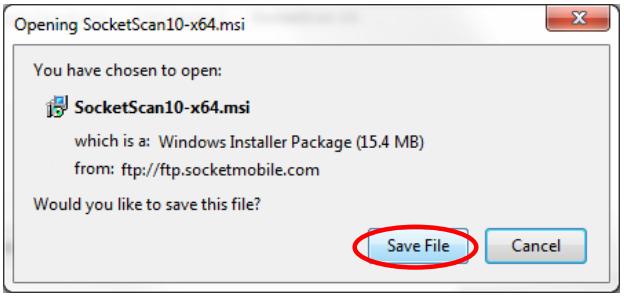
To install SocketScan 10 software:

1. Find out if your system has a 32- or 64-bit processor. In the control panel, click **System** and check the System type.
2. Windows 8 or 7: Make sure you have administrative privileges to install software.
3. Access the SocketScan 10 installation file from the Socket website.
   - Open: http://www.socketmobile.com/support/downloads/data-collection/series7/ss10/
   - Click on the link for the appropriate **exe** file.
4. Download and run the installation file.

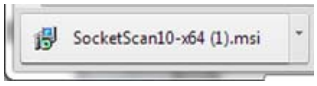
- Internet Explorer: in the Security Warning screens, click **Run**. In the next screen, click **Run**.


Do you want to run or save SocketScan10-x64.msi (15.3 MB) from ftp.socketmobile.com?
This type of file could harm your computer.
Run
Save
Cancel

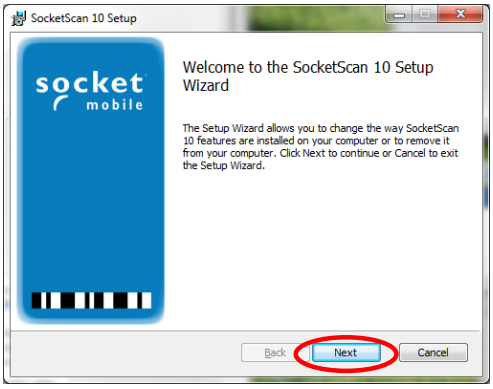
- Firefox: Click **Save File**. In the Downloads list, double-click on the **SocketScan10-x...msi** file. In the warning screen, click **Run**.



- Chrome: Click on the button for the **SocketScan10-x...msi** file at the bottom of Chrome. In the Security Warning screen, click **Run**.

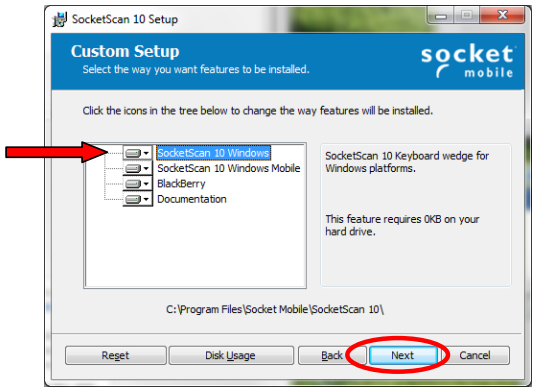


5. The SocketScan 10 Setup Wizard will launch. Follow it to install the software.

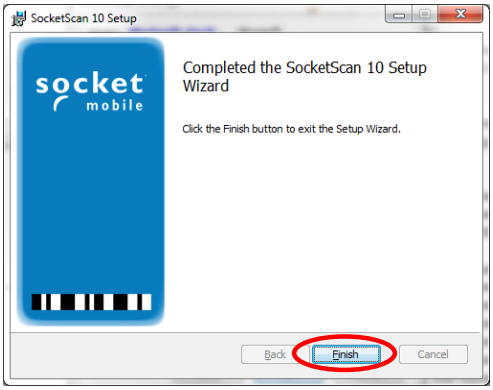

SocketScan 10 Setup
socket mobile
Welcome to the SocketScan 10 Setup Wizard
The Setup Wizard allows you to change the way SocketScan 10 features are installed on your computer or to remove it from your computer. Click Next to continue or Cancel to exit the Setup Wizard.
Back
Next
Cancel

If you are running an older version of SocketScan 10, uninstall it before proceeding with the newer installation. Make sure SocketScan 10 is not running before you start the uninstall process, and when prompted, restart your PC to complete the uninstallation.

6. In the Custom Setup screen, make sure SocketScan 10 Windows is selected. Click the drop-down menu next to each option to choose where to install, or to opt not to install. Click **Next**.



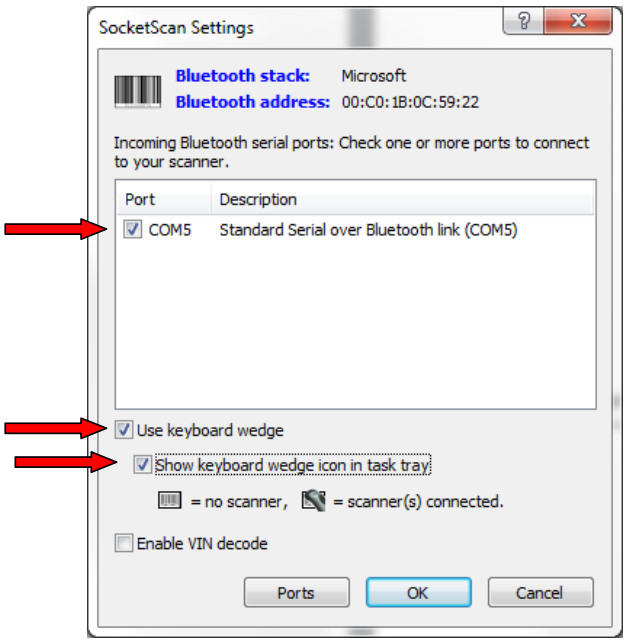
7. Complete the remaining screens until installation is complete. In the last screen, click **Finish**.



After installation, a SocketScan 10 shortcut will appear on your desktop. Click it to quickly launch SocketScan 10.

To configure a Bluetooth COM port:

1. After software installation is complete, the SocketScan Settings screen will appear. Select an available incoming COM port for SocketScan 10 to use. Note the *Bluetooth* stack at the top of the screen.



Click **Ports** if a suitable incoming Bluetooth COM port is not listed and you would like to add one. Also, if SocketScan Settings lists multiple COM ports, you can determine if any are already paired to a Socket Bluetooth barcode scanner and/or which one is incoming.

For the Toshiba Bluetooth stack, incoming COM ports are listed as **LocalCOM-Server**.

For most users, **Use keyboard wedge** and **Show keyboard wedge icon in tray** should be selected. For more information on keyboard wedge and VIN decode options, please see SocketScan 10 Settings.

2. After making all your selections in SocketScan 10 Settings, click **OK**.

To pair the CHS with your computer:

You only need to pair the CHS with your computer the first time you try to connect.

The following instructions are based on Socket EZ Pair, a feature of SocketScan 10 software. For instructions on how to connect by generating and scanning a special barcode, please see Appendix G.

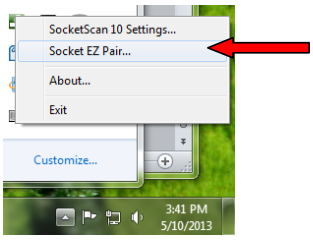
1. Power on the CHS. Press and hold the small power button until the LED turns blue and the CHS beeps twice (low-high).

The LED blinks blue once per second to show that the Bluetooth radio is on but not connected.

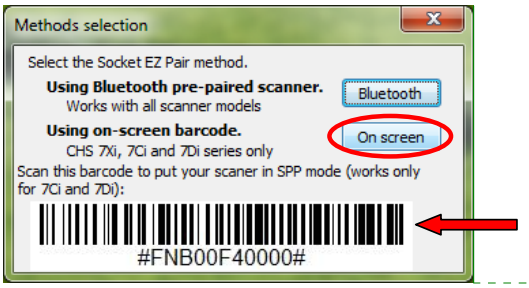
2. Turn on *Bluetooth* on your computer. Refer to your computer's documentation for instructions.
3. Click on the SocketScan 10 icon in the system tray.

If the icon does not appear, try clicking on the triangle ▲ to reveal more icons. If the icon still does not appear, open SocketScan 10 by clicking on the desktop shortcut.

4. In the pop-up menu, click **Socket EZ Pair**.

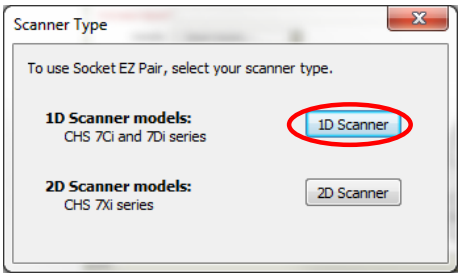


5. Scan the barcode on your screen. The CHS will beep 3 times. Click **On screen**.

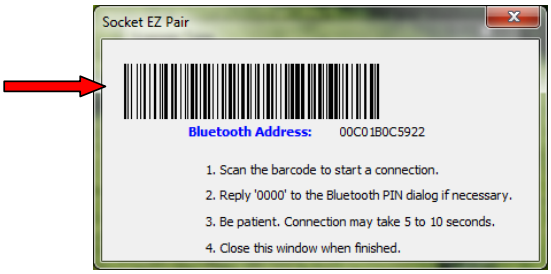

Methods selection
Select the Socket EZ Pair method.
Using Bluetooth pre-paired scanner.
Works with all scanner models
Bluetooth
Using on-screen barcode.
CHS 7Xi, 7Ci and 7Di series only
On screen
Scan this barcode to put your scaner in SPP mode (works only for 7Ci and 7Di):
#FNB00F40000#

Comment [RC1]: Update this pic

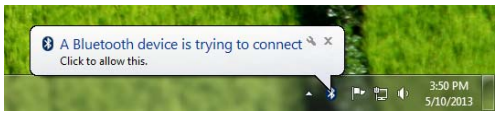
6. Click **1D Scanner**.



7. Scan the barcode on your screen. The CHS will beep 3 times. Click **X** to close Socket EZ Pair.

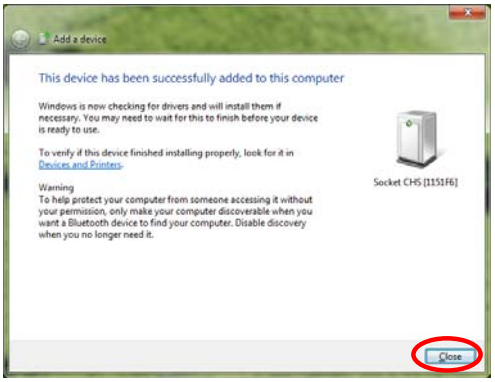

Socket EZ Pair
Bluetooth Address: 00C01B0C5922
1. Scan the barcode to start a connection.
2. Reply '0000' to the Bluetooth PIN dialog if necessary.
3. Be patient. Connection may take 5 to 10 seconds.
4. Close this window when finished.

8. A notification balloon will inform you that a Bluetooth device is trying to connect. Click on the notification.



9. If prompted to enter a pairing code, enter **0000** (four zeroes) and click **Next**.

10. The next screen will report that the device has been successfully added to your computer. Click **Close**.


Add a device
This device has been successfully added to this computer
Windows is now checking for drivers and will install them if necessary. You may need to wait for this to finish before your device is ready to use.
To verify if this device finished installing properly, look for it in Devices and Printers.
Warning
To help protect your computer from someone accessing it without your permission, only make your computer discoverable when you want a Bluetooth device to find your computer. Disable discovery when you no longer need it.
Socket CHS [1151F6]
Close

The CHS will beep once when it has connected and is ready to scan barcodes. The LED will also blink blue once every 3 seconds. A notification balloon will report that the device is ready to use, and a CHS icon will appear in the system tray.

To scan barcodes:

1. Make sure the CHS is connected to the computer, indicated by the CHS icon in the system tray.
2. Open your application. Place the cursor where you want to enter data.
3. Press the trigger button to scan a barcode. Make sure the aiming beam extends across the entire width of the barcode.

For example, try scanning the following barcode:

12341234

After decoding the barcode and sending it to the computer, by default, the CHS will beep once and vibrate, the LED will flash green, and the aiming beam will turn off. You can modify the beep / LED / vibrate settings by using the Scanner Settings utility or Command Barcodes.

To configure an automatic Carriage Return or Tab after each scan of data, use the Scanner Settings utility or Command Barcodes.

If no data is read in a few seconds, the aiming beam will turn off, and you must try again.

To Disconnect: Turn off the CHS. Press and hold the power button for at least 3 seconds, until the CHS beeps twice (high-low) and the blue LED turns off.

Automatic Reconnection:
After you power on the CHS, it will automatically try to connect to the last computer it paired and connected to. Make sure your computer is in range with *Bluetooth* enabled and SocketScan 10 is running.

If the CHS is connected to your computer and gets disconnected, it will try to reconnect for a few minutes. Make sure the computer is on and in range and SocketScan 10 is running. If the CHS cannot reconnect, you will hear a long beep. Turn off the CHS and then turn it back on to restart the reconnection process.

The CHS can only be paired with one device at a time. To use the CHS with a different device, see Appendix F for unpairing instructions.

SocketScan 10 Special Features (SPP Mode Only)

SocketScan 10 software offers a variety of special features:

- **System tray icon** – Indicates CHS connection status at a glance
- **Basic scanner information** – Quick view of basic scanner properties
- **SocketScan 10 Settings** – Utility for configuring COM port, keyboard wedge, system tray icon, and VIN mode
- **Scanner Settings** – Utility lets you view *Bluetooth* properties, battery level, adjust beep / LED / vibrate settings, test barcodes, and more
- **About** – Software version information

System Tray Icon

When SocketScan 10 is running, an icon that indicates the CHS connection status will appear in the system tray (notification area).

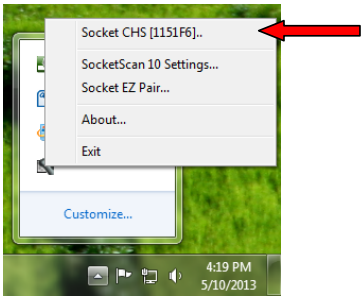
CHS not connected CHS connected

Basic Scanner Information

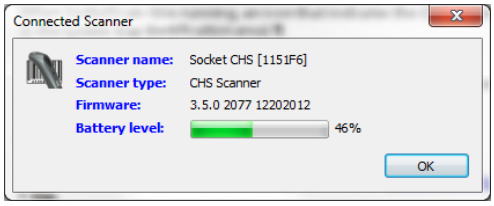
To view more detailed scanner properties, use Scanner Settings.

You can only view Basic Scanner Properties when the CHS is connected to your computer.

1. Click on the CHS icon in the system tray. In the pop-up menu, click **Socket CHS**.



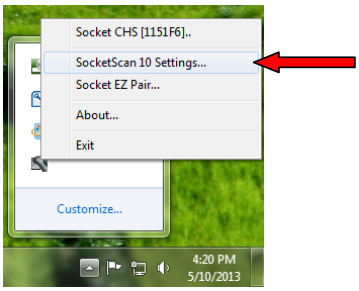
2. A screen will appear displaying basic information about your CHS, including the *Bluetooth* friendly name, scanner type, firmware, and battery level.



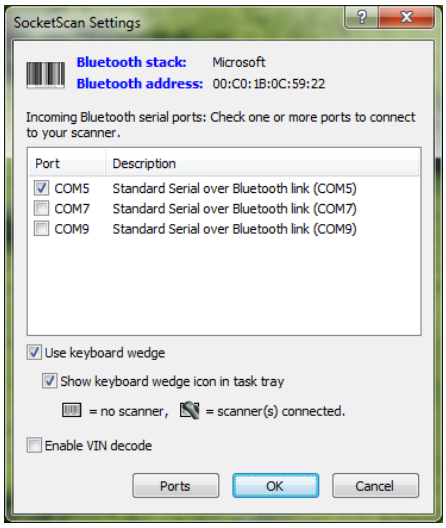
3. After viewing the information, click **OK** to exit.

SocketScan 10 Settings

1. Click on the SocketScan 10 icon or in the system tray. In the pop-up menu, click **SocketScan 10 Settings...**



2. The SocketScan 10 Settings screen will appear, reporting the manufacturer of the computer's *Bluetooth* stack and the computer's Bluetooth Address.


SocketScan Settings
Bluetooth stack: Microsoft
Bluetooth address: 00:C0:1B:0C:59:22
Incoming Bluetooth serial ports: Check one or more ports to connect to your scanner.
Port
Description
COM5 Standard Serial over Bluetooth link (COM5)
COM7 Standard Serial over Bluetooth link (COM7)
COM9 Standard Serial over Bluetooth link (COM9)
Use keyboard wedge
Show keyboard wedge icon in task tray
= no scanner, = scanner(s) connected.
Enable VIN decode
Ports
OK
Cancel

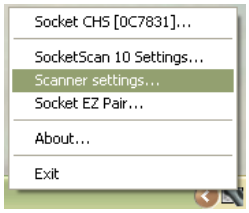
- **Port**: An incoming *Bluetooth* serial COM port must be selected for the CHS connection.
  - If a suitable port is not listed in SocketScan 10 Settings, click **Ports** to use your computer's *Bluetooth* software to add one.
  - Toshiba *Bluetooth* stack: To identify an incoming COM, click **Ports**. In your computer's *Bluetooth* software, incoming ports are labeled as **LocalCOM-Server**.
- **Use keyboard wedge**: Should be selected in most cases unless you plan to use the SDK
- **Show keyboard wedge icon in tray**: Select to have a system tray icon appear that conveniently indicates whether the CHS is connected to the PC.
- **Enable VIN decode**: Select to have SocketScan 10 only send a 17-character Vehicle Identification Number (i.e., omit any prefix/suffix included in a VIN barcode).
- **Ports**: Click to access your computer's *Bluetooth* software to add or view properties of *Bluetooth* COM ports (including which are incoming / outgoing).

3. After making changes, click **OK**.

Scanner Settings

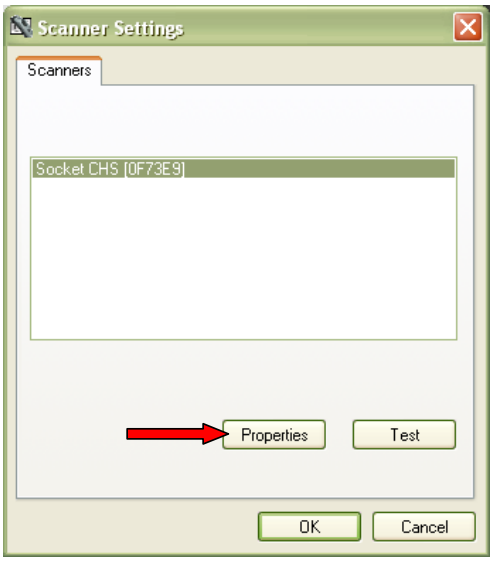
You can access Scanner Settings only when the CHS is connected to your computer.

1. Click on the CHS icon in the system tray. In the pop-up menu, click **Scanner settings...**



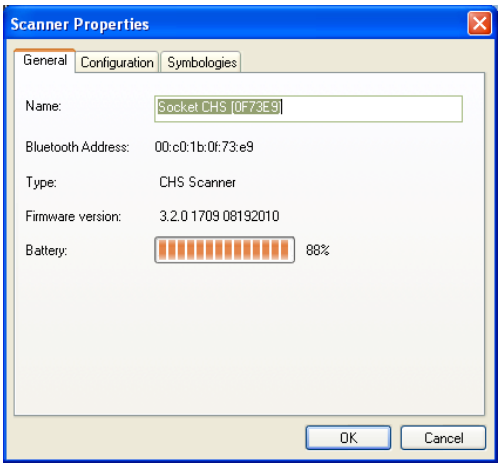
2. The Scanner Settings screen will appear with an empty field. For the Microsoft and Broadcom (Widcomm) *Bluetooth* stacks, the CHS will also beep twice when in disconnects from SocketScan 10.

3. After a few seconds, the CHS will connect to Scanner Settings, indicated by a beep. Your CHS will be listed on the screen. Make sure your CHS is selected, and click **Properties**.

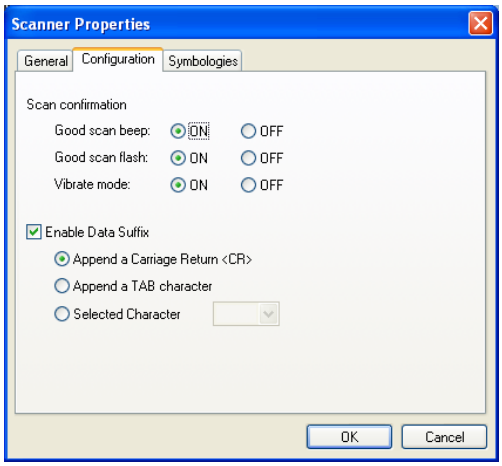


5. The utility will read your scanner settings.

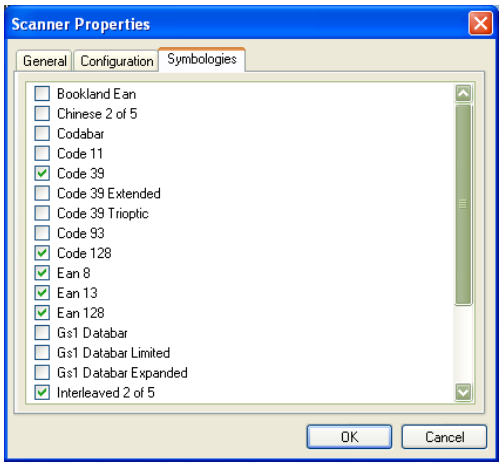
6. The General properties screen will appear, reporting the Bluetooth friendly name, Bluetooth Address, Type of device, firmware version, and battery level. If desired, change the *Bluetooth* friendly name of the CHS.



7. Click on the **Configuration** tab. If desired, modify how the CHS confirms a good scan and/or select a specific suffix to automatically add to each instance of scanned data.



Click on the **Symbologies** tab to modify which symbologies the CHS will be able to decode.



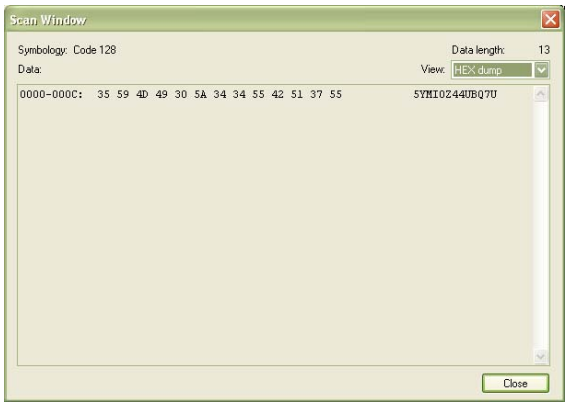
Enabling all possible symbologies may slow the decoding process.

The RSS symbology is now known as GS1 DataBar.

If you want to read UPC-A symbols, disable the GS1 DataBar option so that GS1 DataBar symbols don't get mistakenly decoded.

8. Click **OK** to exit the Scanner Properties. If desired, click **Test** to test scanning a barcode. The Scan Window will appear.

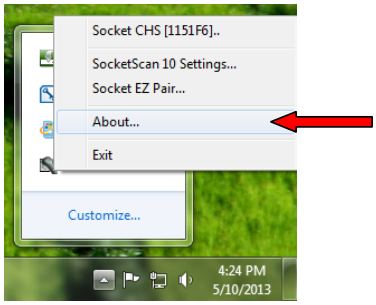
9. Scan a barcode that you would like information about. The Scan Window will report the barcode's symbology, data length, and data, in your choice of ASCII or Hexadecimal format.


Scan Window
Symbology: Code 128
Data length: 13
Data:
View: HEX dump
0000-000C: 35 59 4D 49 30 5A 34 34 55 42 51 37 55 5YMI0Z44UBQ7U
Close

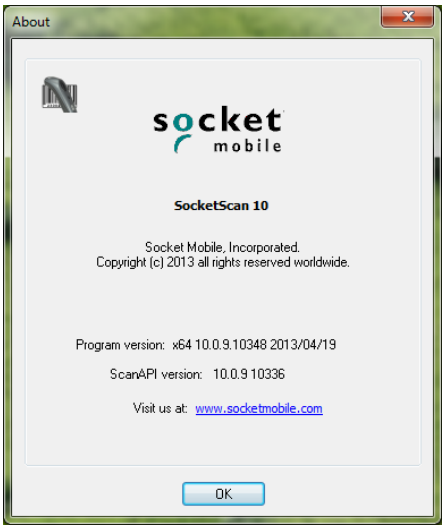
10. After testing a barcode, click **Close**. Click **OK** to exit Scanner Settings. The CHS will beep twice after disconnecting from Scanner Settings. A few seconds later, the CHS will beep once after connecting to SocketScan 10.

About

1. Click on the CHS icon or in the system tray. In the pop-up menu, click **About...**



2. The About screen will appear with SocketScan 10 version information.



3. After viewing the information, click **OK** to exit.

4 | Setup for Socket SoMo

This chapter explains how to install and use 1D models of the Socket *Bluetooth* Cordless Hand Scanner (CHS) Series 7 with a Socket Mobile SoMo 650 or 655 handheld computer running Windows Embedded Handheld.

Before you begin the instructions in this chapter, make sure you have installed the batteries and charged the CHS, as described in Chapter 2, "Scanner Setup"

For instructions for the HP iPAQ 210 or HTC HD2, please visit: http://www.socketmobile.com/support/downloads/data-collection/series7/ss10/?page=Detail Other devices running Windows Embedded Handheld 6 with the Microsoft Bluetooth stack may be compatible.

Connection Options

For Windows Embedded Handheld, the CHS offers two different connection options.

Bluetooth Mode	Pros	Cons
HID Instructions on next page	• No SocketScan 10 software installation needed	• Limited configuration options • Limited to printable ASCII and some non-printable characters • Less efficient data communications for barcodes containing lots of data • Compatible only with SoMo
SPP Instructions on page 69	• Many configuration options • Broad character set, including non-printable ASCII, international keyboards • More efficient data communications for barcodes containing lots of data	• Requires installation of SocketScan 10 keyboard wedge software or an application developed with SocketScan 10 SDK.

Socket highly recommends that you use the CHS in SPP mode. Learn more: http://www.socketmobile.com/pdf/techbrief/socketscan-10-sdk_white-paper.pdf.

OPTION 1: USING THE CHS IN HID MODE

To pair the CHS with your SoMo:

You only need to pair the CHS with your SoMo the first time you try to connect.

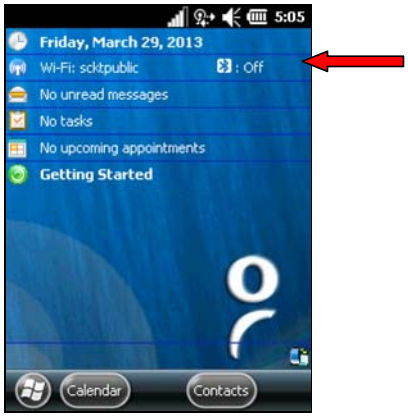
1. Power on the CHS. Press and hold the small power button until the LED turns blue and the CHS beeps twice (low-high).

The LED blinks blue once per second to show that the Bluetooth radio is on but not connected.

2. Scan this barcode to configure the CHS for HID mode for peripherals. Afterwards, the CHS will beep 3 times.

The CHS must be in HID mode first before you scan the barcode above. By default, the CHS is in HID mode. If the CHS was changed to SPP mode, use the Command Barcodes to change it to HID mode.

3. In the Today screen, tap on the line that lists Wi-Fi and *Bluetooth* status.



Alternatively, press the button on the right side of the SoMo, which launches the wireless manager by default.

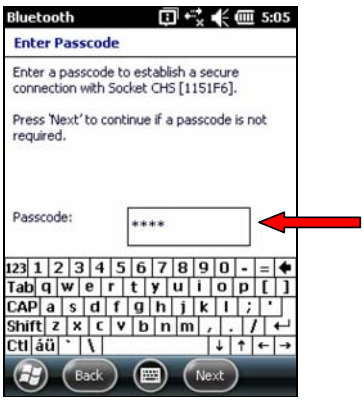
4. Use the wireless manager to enable *Bluetooth*.

5. Tap **Options | Bluetooth Settings**. In the *Bluetooth* utility, tap **Add new device...** Alternatively, tap **Add** at the bottom of the screen.

6. In the device list, tap on **Socket CHS [xxxxxx]**.

The characters in brackets are the last six characters of the CHS Bluetooth Address, which is labeled inside the battery compartment.

7. When prompted for a passcode, enter **0000** (four zeroes). Tap **Next**.



8. After the SoMo connects to the CHS, a message will confirm the connection. Tap **Done**.

Bluetooth
5:05
Enter Passcode
Enter a passcode to establish a secure connection with Socket CHS [1151F6].
Press 'Next' to continue if a passcode is not required.
Device Added
Your Windows® phone has connected with Socket CHS [1151F6].
Done
Advan...

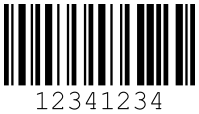
The CHS will beep once when it has connected and is ready to scan barcodes. The LED will also blink blue once every 3 seconds.

9. The CHS will now appear in the Connected list. Tap **OK**.

To scan barcodes:

1. Open your application. Place the cursor where you want to enter data.
2. Press the trigger button to scan a barcode. Make sure the aiming beam extends across the entire width of the barcode.

For example, try scanning the following barcode:



After data is read and sent to the computer, by default, the CHS will beep once and vibrate, the LED will flash green, and the beam will turn off. You can use the Command Barcodes to modify the beep / LED / vibrate settings.

By default, a carriage return is applied after scanned barcode data is entered. To disable the automatic carriage return, you can use the Command Barcodes (use the Data Editing barcode for disabling suffixes).

If no data is read in a few seconds, the beam will turn off, and you must try again.

To Disconnect: Turn off the CHS. Press and hold the power button for at least 3 seconds, until the CHS beeps twice (high-low) and the blue LED turns off.

Automatic Reconnection:
After you power on the CHS, it will automatically try to connect to the last device it paired and connected to. Make sure your device is in range with *Bluetooth* enabled.

If the CHS is connected to your device and gets disconnected, it will try to reconnect for a few minutes. Make sure the device is on and in range. If the CHS cannot reconnect, you will hear a long beep. Turn off the CHS and then turn it back on to restart the reconnection process.

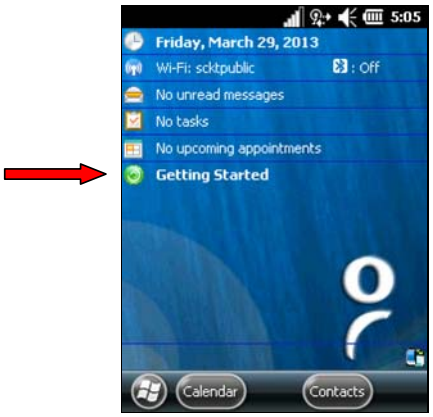
The CHS can only be paired with one device at a time. To use the CHS with a different device, see Appendix F for unpairing instructions.

OPTION 2: USING THE CHS IN SPP MODE

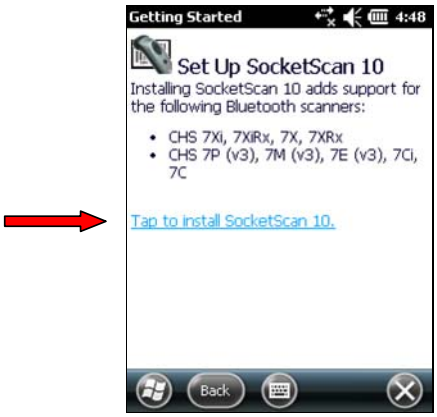
These instructions are based on the SoMo 655 with Windows Mobile 6.5 Service Pack 2.

To install SocketScan 10 software on the SoMo:

1. In the Today screen, tap **Getting Started**.

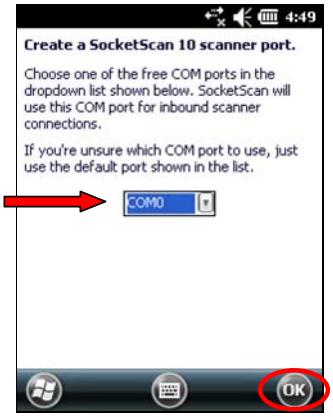


2. Tap **Set up SocketScan 10**. In the next screen, tap on the link to install.


Getting Started
4:48
Set Up SocketScan 10
Installing SocketScan 10 adds support for the following Bluetooth scanners:
• CHS 7Xi, 7XiRx, 7X, 7XRx
• CHS 7P (v3), 7M (v3), 7E (v3), 7Ci, 7C
Tap to install SocketScan 10.
Back

3. Select where you would like to install the software. Tap **Install**.

4. Select an available Bluetooth COM port for the inbound scanner connection. Tap **OK**.


4:49
Create a SocketScan 10 scanner port.
Choose one of the free COM ports in the dropdown list shown below. SocketScan will use this COM port for inbound scanner connections.
If you're unsure which COM port to use, just use the default port shown in the list.
COM0
OK

5. When prompted to soft reset, tap **Yes**.

To pair and connect the CHS with the SoMo:

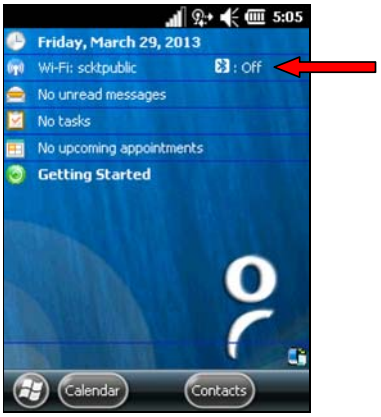
You only need to pair the CHS with your SoMo the first time you try to connect.

The following instructions are based on Socket EZ Pair, a feature of SocketScan 10 software. For instructions on how to connect by generating and scanning a special barcode (ActivePairing), please see Appendix G.

1. Power on the CHS. Press and hold the small power button until the LED turns blue and the CHS beeps twice (low-high).

The LED blinks blue once per second to show that the Bluetooth radio is on but not connected.

2. Make sure Bluetooth is enabled. In the Today screen, check the Bluetooth status .



If Bluetooth is off, tap on the Bluetooth status line. In the Radio Manager, tap on the Bluetooth button. After Bluetooth is enabled, the red "x" will disappear from the button. Tap **OK**.

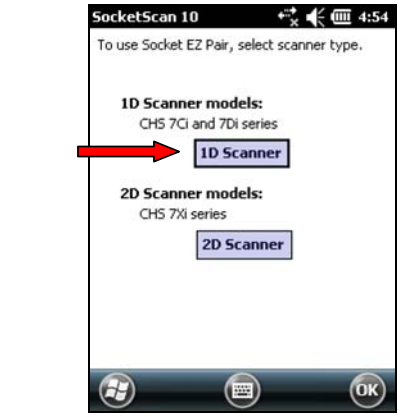
3. Tap **Start** **| Programs | SocketScan 10** folder **| SocketScan 10** .

4. Tap on the SocketScan 10 icon in the task tray. In the pop-up menu, tap **Socket EZ Pair**.

5. Scan the barcode that appears on the screen. The CHS will beep 3 times. Tap **On screen**.

SocketScan 10
4:53
Seleact the Socket EZ Pair method.
Using Bluetooth pre-paired
Works on all scanner models
Bluetooth
Using on-screen barcode:
CHS 7Xi, 7Ci and 7Di series only
On screen
Scan this barcode to put your scanner in SPP mode (works only for 7Ci and 7Di):
#FNB00F40000#
OK

6. Tap **1D Scanner**.



7. Scan the barcode that appears in the next screen. The CHS will beep 3 times.

SocketScan 10
4:54
Bluetooth Address:
00C01B10701F
1. Hold the scanner about 8 inches (20 cm) from the screen.
2. Scan the barcode to start a connection.
3. Reply '0000' to the PIN prompt if necessary.
4. Wait a few seconds for the connection.
5. Close this window when finished.
If you have difficulties scanning the barcode, try increasing the brightness of the screen.
Tap to adjust screen brightness.
OK

If you have trouble reading the barcode, try increasing the brightness of the screen. Tap on the link at the bottom of the screen to modify the brightness settings.

8. The screen will report that the CHS is trying to connect. Tap **Yes**.

9. Enter the passcode **0000**. Tap **Next**.

10. The CHS will pair with the SoMo. Tap **OK**.

The CHS will beep once when it has connected and is ready to scan barcodes. The LED will also blink blue once every 3 seconds.

11. The CHS registration screen will appear. Follow the instructions to register your scanner, or click **Cancel** to register later.

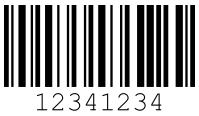
Register CHS
Register Socket CHS Scanner
Please take a moment to register your CHS Scanner. By registering your scanner you will be eligible to receive update notifications and product information.
Please include the name of the application you will be scanning data into.
Bluetooth Address: 00C01B0C7831
Tap "Next" to continue.
Cancel
Next

Now you are ready to scan barcodes, see instructions on the next page.

To scan barcodes:

1. Make sure the CHS is connected to the SoMo, indicated by the CHS icon in the task tray.
2. Open your application. Place the cursor where you want to enter data.
3. Press the trigger button to scan a barcode. Make sure the aiming beam extends across the entire width of the barcode.

For example, try scanning the following barcode:



After decoding the barcode and sending it to the SoMo, by default, the CHS will beep once and vibrate, the LED will flash green, and the aiming beam will turn off. To modify the beep / LED / vibrate settings, use the Scanner Settings utility or Command Barcodes.

To configure an automatic Carriage Return or Tab after each scan of data, use the Scanner Settings utility or Command Barcodes.

If no data is read in a few seconds, the aiming beam will turn off, and you must try again.

To Disconnect:
To disconnect, turn off the CHS. Press and hold the power button for at least 3 seconds, until the CHS beeps twice (high-low) and the blue LED turns off.

Automatic Reconnection:
After you power on the CHS, it will automatically try to connect to the last device it paired and connected to. Make sure your device is in range with *Bluetooth* enabled and SocketScan 10 is running.

If the CHS is connected to your device and gets disconnected, it will try to reconnect for a few minutes. Make sure the device is on and in range and SocketScan 10 is running. If the CHS cannot reconnect, you will hear a long beep. Press the trigger button to restart the reconnection process.

The CHS can only be paired with one device at a time. To use the CHS with a different device, see Appendix F for unpairing instructions.

SOCKETSCAN 10 SPECIAL FEATURES (SPP MODE ONLY)

SocketScan 10 software offers a variety of special features:

- **Basic scanner information** – Quick view of basic scanner properties
- **SocketScan 10 settings** – Utility for configuring COM port, keyboard wedge, task tray icon, and VIN mode
- **Scanner settings** – Utility lets you view *Bluetooth* properties, battery level, adjust beep / LED / vibrate settings, test barcodes, and more
- **About** – Software version information

Task Tray Icon

When SocketScan 10 is running, an icon that indicates the CHS connection status will appear in the task tray in the Today screen.

CHS not connected CHS connected

Basic Scanner Information

You can only view Basic Scanner Properties when the CHS is connected to your PDA. To view more detailed scanner properties, use Scanner Settings.

1. Tap on the CHS icon in the task tray. In the pop-up menu, tap **Socket CHS**.

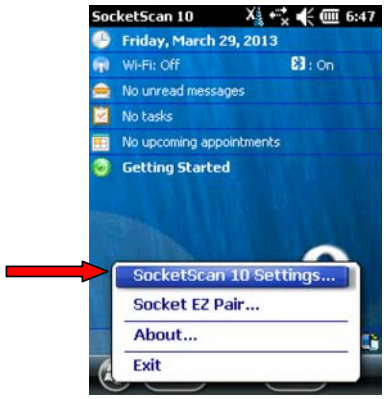
2. A screen will appear displaying basic information about your CHS, including the *Bluetooth* friendly name, scanner type, firmware, and battery level.

3. After viewing the information, click **OK** to exit.

SocketScan 10 Settings

You can only view Basic Scanner Properties when the CHS is connected to your SoMo.

1. Tap on the CHS icon or in the task tray. In the pop-up menu, tap **SocketScan 10 Settings...**



2. A screen will appear displaying the SocketScan software settings, as well as the Bluetooth stack manufacturer and Bluetooth Address.

- **Port**: Select the incoming Bluetooth serial COM port that you would like SocketScan to use to connect to the CHS (REQUIRED).
- **Use keyboard wedge**: Should be selected in most cases unless you plan to use the SDK.
- **Show icon in the task tray**: Select to have a task tray icon appear that conveniently indicates whether the CHS is connected to the PDA.
- **Enable VIN decode**: Select to have SocketScan 10 only send a 17-character VIN (i.e., omit any prefix/suffix included in a VIN barcode).

3. After making any changes, tap **OK** to exit.

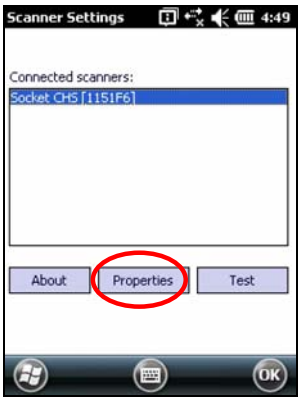
Scanner Settings

You can access Scanner Settings only when the CHS is connected to your PDA.

1. Tap on the CHS icon in the task tray. In the pop-up menu, tap **Scanner settings...**

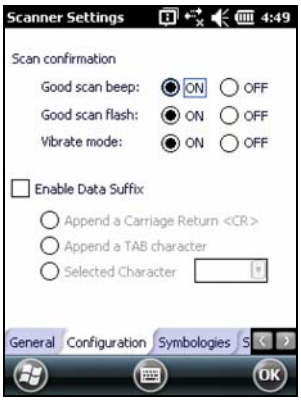
2. The CHS will disconnect from SocketScan 10, indicated by two beeps. The Scanner Settings screen will appear with an empty field.

3. After a few seconds, the CHS will connect to Scanner Settings and beep once. Your CHS will appear in the list. Make sure your CHS is selected, and tap **Properties**.

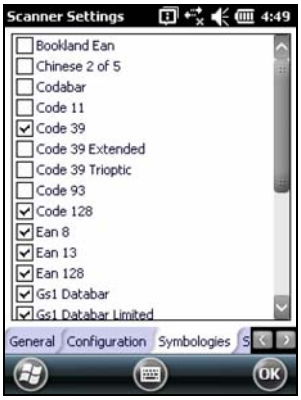


4. After the utility has read you scanner settings, the General properties screen will appear, reporting the Bluetooth friendly name, Bluetooth Address, Type of device, firmware version, and battery level. To change the Bluetooth friendly name of the CHS, tap in the **Name** field.

5. Tap on the **Configuration** tab. Here you can modify how the CHS confirms a good scan and/or select a data suffix to automatically add to each instance of scanned data.



6. Tap on the **Symbologies** tab to modify which types of barcodes the CHS will be able to decode.

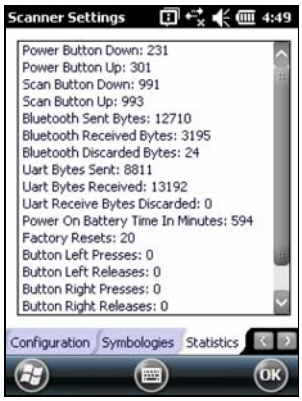


Enabling all possible symbologies may slow the decoding process.

The RSS symbology is now known as GS1 DataBar.

If you want to read UPC-A symbols, disable the GS1 DataBar option so that GS1 DataBar symbols don't get mistakenly decoded.

7. Tap on the **Statistics** tab to view data on your scanner's usage.



8. Tap **OK** to exit Scanner Settings.

9. To test scanning a barcode, tap **Test**.

9. Scan a barcode that you would like information about. SocketScan will report the barcode's symbology, data length, and data, in ASCII text or Hexadecimal format.

10. After testing a barcode, tap **OK**. Tap **OK** to exit Scanner Settings.

About

1. Tap on the SocketScan 10 icon or in the task tray. In the pop-up menu, tap **About...**

2. The About screen will appear, reporting information about your version of SocketScan 10.

3. After viewing the information, click **OK** to exit.

7 | SETUP FOR BLACKBERRY

This chapter explains how to install and use the *Bluetooth* Cordless Hand Scanner (CHS) with one of the following BlackBerry devices:

- BlackBerry® Bold 9700 Smartphone running BlackBerry OS 5.0.0.714 or later. Other models have not been tested with SocketScan 10 and may require a previous software version. Works in *Bluetooth* SPP mode only.

- BlackBerry PlayBook running QNX. Works in *Bluetooth* HID mode only.

For instructions for the Bold 9900, please visit:
http://www.socketmobile.com/pdf/data-collection/chs-7ci_blackberry-9900.pdf

Before you begin the instructions in this chapter, make sure you have installed the batteries (and tether, if desired), and charged the scanner, as described in Chapter 2, "Scanner Setup"

USING THE CHS IN HID MODE (BLACKBERRY PLAYBOOK)

Compatible with BlackBerry PlayBook running QNX. For BlackBerry OS smartphone, see page 86 for SPP instructions.

To pair the CHS with your Android device:

You only need to pair the CHS with your PlayBook the first time you try to connect.

1. Power on the CHS. Press and hold the small power button until the LED turns blue and the CHS beeps twice (low-high).

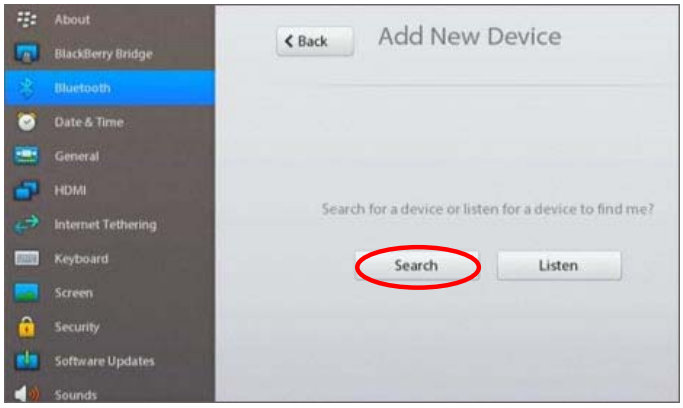
The LED blinks blue once per second to show that the Bluetooth radio is on but not connected.

2. By default the CHS is in HID mode for Keyboard Devices. If you changed the CHS mode, use the appropriate command barcode to change it back to HID mode for Keyboard devices.

3. On the status bar, tap | **Bluetooth**.

4. Make sure Bluetooth is turned **ON**. Tap **Add New Device**.

5. Tap **Search**.

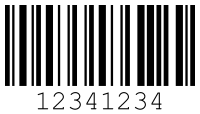


6. In the list of found devices, select **Socket CHS**.
7. After they have paired and connected, the CHS will beep once.

To scan barcodes:

1. Open your application. Place the cursor where you want to enter data.
2. Press the trigger button to scan a barcode. Make sure the aiming beam extends across the entire width of the barcode.

For example, try scanning the following barcode:



After decoding the barcode and sending it to the tablet, by default the CHS will beep once and vibrate, the LED will flash green, and the aiming beam will turn off. You can use Command Barcodes to modify the beep / LED / vibrate settings.

By default, a carriage return is applied after scanned barcode data is entered. To disable the automatic carriage return, you can use the Command Barcodes (use the Data Editing barcode for Data As Is).

If no data is read in a few seconds, the beam will turn off, and you must try again.

To Disconnect:
To disconnect, turn off the CHS. Press and hold the power button for at least 3 seconds, until the CHS beeps twice (high-low) and the blue LED turns off.

Automatic Reconnection:
After you power on the CHS, it will automatically try to connect to the last tablet it paired and connected to. Make sure your tablet is in range with *Bluetooth* enabled.

If the CHS is connected to your tablet and gets disconnected, it will try to reconnect for a few minutes. Make sure the tablet is on and in range. If the CHS cannot reconnect, it will give a long beep. Power off and on the CHS to restart the reconnection process.

The CHS can only be paired with one device at a time. To use the CHS with a different device, see Appendix F for unpairing instructions.

USING THE CHS IN SPP MODE (BLACKBERRY OS)

To install the software:
You can install SocketScan 10 software either by downloading directly to the smartphone or synchronizing to a host PC with BlackBerry Desktop Manager.

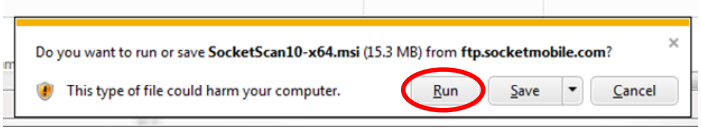
Downloading to the Smartphone

1. Make sure your smartphone is connected to the Internet.
2. Open the Browser to: http://www.socketmobile.com/blackberry
3. The SocketScan for BlackBerry installation screen will appear. Read the information in the screen. If you accept the license agreement, click **I Accept**.
4. The download screen will appear. Click **Download**. The smartphone will download and install SocketScan.
5. After installation, a dialog will confirm successful installation. Click **OK**.

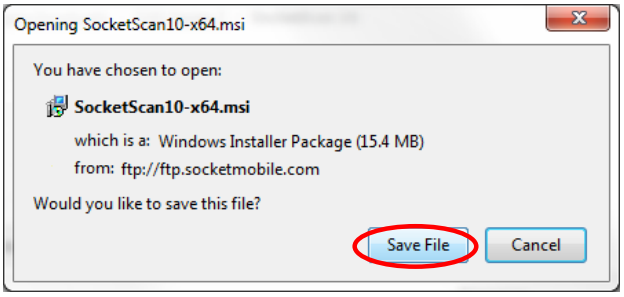
Synchronizing with a Desktop PC
Refer to your BlackBerry Desktop Manager manual for complete instructions.

1. Download and run the installation file from http://www.socketmobile.com/support/downloads

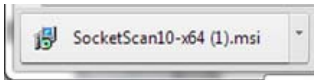
- Internet Explorer: in the Security Warning screens, click **Run**. In the next screen, click **Run**.


Do you want to run or save SocketScan10-x64.msi (15.3 MB) from ftp.socketmobile.com?
This type of file could harm your computer.
Run
Save
Cancel

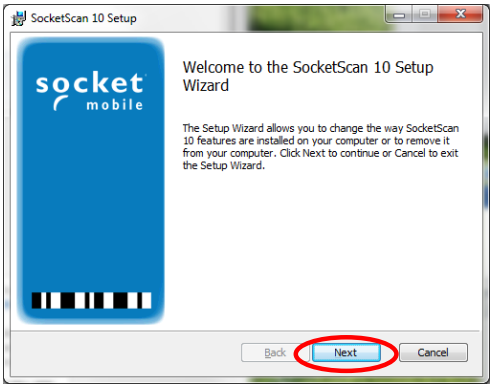
- Firefox: Click **Save File**. In the Downloads list, double-click on the **SocketScan10-x...msi** file. In the warning screen, click **Run**.



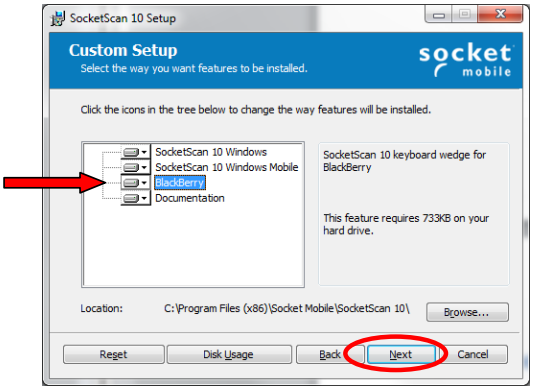
- Chrome: Click on the button for the **SocketScan10-x...msi** file at the bottom of Chrome. In the Security Warning screen, click **Run**.



2. The installation wizard will launch. Follow it to install software for BlackBerry.


SocketScan 10 Setup
socket mobile
Welcome to the SocketScan 10 Setup Wizard
The Setup Wizard allows you to change the way SocketScan 10 features are installed on your computer or to remove it from your computer. Click Next to continue or Cancel to exit the Setup Wizard.
Back
Next
Cancel

3. In the Custom Setup screen, make sure **BlackBerry** is selected. Click the drop-down menu next to each option to choose where to install, or to opt not to install. Click **Next**.



4. Complete the remaining screens until installation is complete. In the last screen, click **Finish**.

5. Use a USB connection cable/cradle to connect the smartphone to the PC.

6. Launch the BlackBerry Desktop Manager. Click **Start | Programs | BlackBerry | Desktop Manager**.

Click **Applications**. If SocketScan 10 doesn't show in the list of Applications, click **Import files**. Browse to the location of the SocketScan 10 file on your computer.

7. In the Application Summary pane, click **Apply**.

By default, all of the SocketScan 10 subfiles will be selected for installation. Do not deselect any.

To pair the CHS with your BlackBerry smartphone:

You only need to pair the CHS with your phone the first time you try to connect.

The following instructions are based on Socket EZ Pair, a feature of SocketScan 10 software. For instructions on how to connect by generating and scanning a special barcode (ActivePairing), please see Appendix G.

1. Power on the CHS. Press and hold the small power button until the LED turns blue and the CHS beeps twice (low-high).

The LED blinks blue once per second to show that the Bluetooth radio is on but not connected.

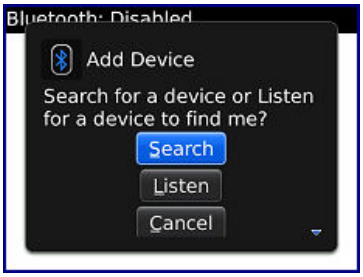
2. Scan this barcode to change the CHS to SPP mode. Afterwards, the CHS will beep 3 times.

#FNB00F40000#

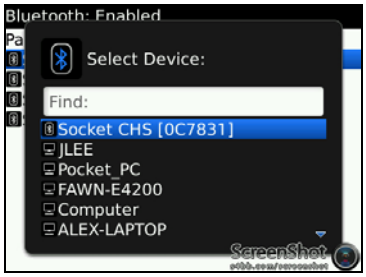
3. In the Home Screen, click **Manage Connections** .

4. Click **Set Up *Bluetooth***.

5. Click **Search**.



6. In the list of found devices, click **Socket CHS [xxxxxx]**.



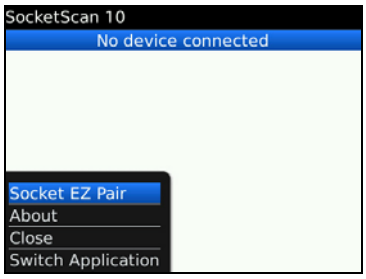
The characters in brackets are the last six characters of the Bluetooth Address, which is printed on a label inside the battery compartment.

7. If prompted for a passkey, enter **0000** (four zeroes).

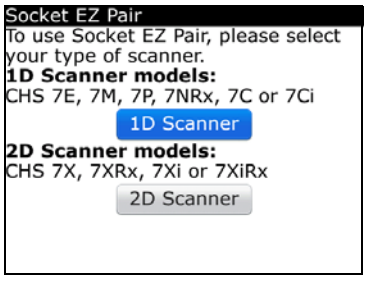
8. In the Home screen, click **Downloads | SocketScan 10**.

9. If asked if you want to grant trusted application status, click **Yes**.

10. In SocketScan 10, click **Menu | Socket EZ Pair**.

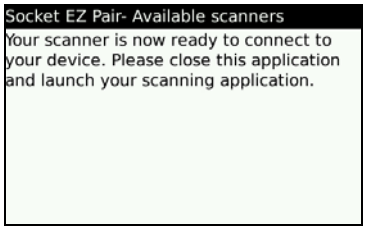


11. Click **1D Scanner**.

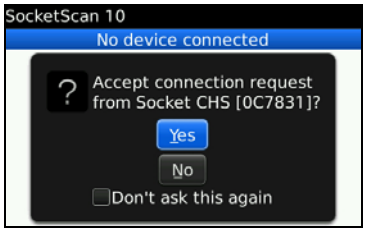

Socket EZ Pair
To use Socket EZ Pair, please select your type of scanner.
1D Scanner models:
CHS 7E, 7M, 7P, 7NRx, 7C or 7Ci
1D Scanner
2D Scanner models:
CHS 7X, 7XRx, 7Xi or 7XiRx
2D Scanner

12. If prompted, select your CHS.

13. After they pair and connect, the CHS will beep once to confirm the connection, then beep twice to signal a disconnection. Click **Menu | Close** to close Socket EZ Pair.


Socket EZ Pair- Available scanners
Your scanner is now ready to connect to your device. Please close this application and launch your scanning application.

14. SocketScan 10 will try to connect to the CHS. If asked to confirm, click **Yes**.



TIP *The CHS will beep once when it has connected and is ready to scan barcodes. The LED will also blink blue once every 3 seconds.*

15. The registration screen will appear. Follow the instructions to register the scanner, or click **Cancel** to register later.

To scan barcodes:

1. Open your application. Place the cursor where you want to enter data.

2. Press the trigger button to scan a barcode. Make sure the aiming beam extends across the entire width of the barcode.

For example, try scanning the following barcode:

12341234

After decoding the barcode and sending it to the phone, by default the CHS will beep once and vibrate, the LED will flash green, and the aiming beam will turn off. You can use the Scanner Settings utility (see next page) or Command Barcodes to modify the beep / LED / vibrate settings.

To configure an automatic Carriage Return or Tab after each scan of data, use the Scanner Settings utility (see next page) or Command Barcodes.

If no data is read in a few seconds, the beam will turn off, and you must try again.

To Disconnect:
To disconnect, turn off the CHS. Press and hold the power button for at least 3 seconds, until the CHS beeps twice (high-low) and the blue LED turns off.

Automatic Reconnection:
After you power on the CHS, it will automatically try to connect to the last phone it paired and connected to. Make sure your phone is in range with *Bluetooth* enabled and SocketScan 10 is running.

If the CHS is connected to your phone and gets disconnected, it will try to reconnect for a few minutes. Make sure the phone is on and in range. If the CHS cannot reconnect, you will hear a long beep. Power cycle the scanner to restart the reconnection process.

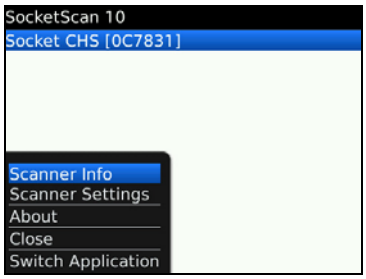
The CHS can only be paired with one device at a time. To use the CHS with a different device, see Appendix F for unpairing instructions.

SOCKETSCAN 10 SPECIAL FEATURES

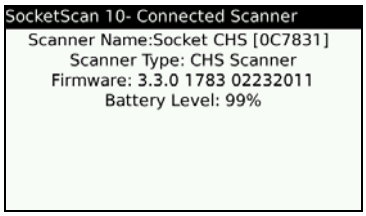
Scanner Info

You can view Scanner Info only when the CHS is connected to your smartphone.

1. In SocketScan 10, click **Menu | Scanner Info**.



2. In the Scanner Info screen, some basic properties of your CHS are displayed. If desired, click in the **Scanner Name** field to change the *Bluetooth* friendly name of your CHS. After making any changes, click **Menu | Save**.



Scanner Settings

You can configure scanner settings only when the CHS is connected to your smartphone.

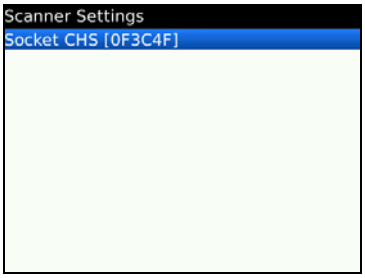
1. In SocketScan 10, click **Menu | Scanner Settings**. The CHS will disconnect from SocketScan 10 and beep twice.

2. If prompted to connect to Socket CHS, click **Yes**. The CHS will connect to Scanner Settings and beep once.

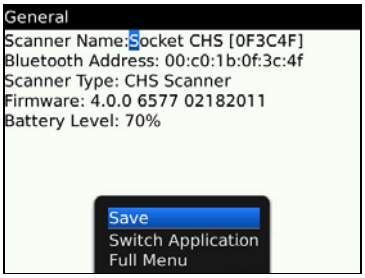
General Scanner Info

You can view Scanner info only when the CHS is connected to your smartphone.

1. In SocketScan Settings, you can access Scanner Info by clicking on the main screen.

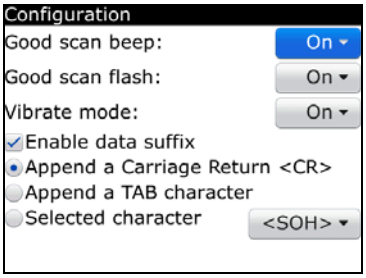


2. Besides viewing general scanner properties, you can also place the cursor in the Scanner Name field to change the *Bluetooth* friendly name of your CHS. After making any changes, click **Menu | Save**.



Scanner Settings - Configuration

1. In Scanner Settings, click **Menu | Configuration**. Enter the appropriate settings:



- **Good scan beep**: Select to have the CHS beep to indicate that data was successfully decoded and transmitted to the smartphone.
- **Good scan flash:** Select to have the CHS LED turn green to indicate that data was successfully decoded and transmitted to the smartphone.
- **Vibrate mode:** Select to have the CHS vibrate to indicate that data was successfully decoded and transmitted to the smartphone.
- **Scanned data suffix**: Select if you would like to add a carriage return or tab after each scan of data.

2. After entering any settings, click **Menu | Save**.

Scanner Settings - Symbologies

1. In Scanner Settings, click **Menu | Symbologies**. Press the space bar to enable or disable symbologies.

Enabling all possible symbologies will make the decode process slightly longer.

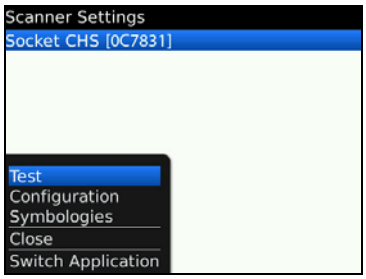
The RSS symbology is now known as GS1 DataBar.

If you would like to read UPC-A symbols, be sure to disable GS1 DataBar so that GS1 DataBar symbols don't get mistakenly decoded.

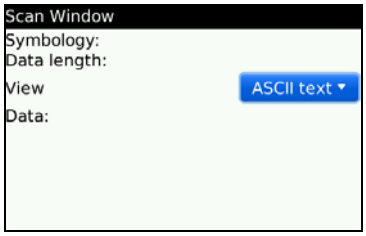
2. After entering any settings, click **Menu | Save**.

Scanner Settings - Test

1. In Scanner Settings, click **Menu | Test**.



2. Select the data format as either ASCII or hexadecimal. Scan a barcode. The Scan Window will report the barcode's symbology, data length, and data content.



APPENDIX A
SPECIFICATIONS

Physical Characteristics	
Dimensions	7Ci: 129(l) x 40.1(h) x 34.6(w) mm (5.07(l) x 1.57(h) x 1.36(w) inches) 7Di(Rx): 132(l) x 45.1(h) x 37.9(w) mm (5.20(l) x 1.77(h) x 1.49(w) in.)
Total Weight	7Ci: 45 g (1.6 oz) 7Di(Rx): approx. 68 g (2.4 oz)
Power Source	Two AAA NiMH rechargeable batteries
Battery Charging Time	With AC adapter: 5 hours (under conditions of 0 to +40°C)
Expected Battery Life	With Normal Operation (connected with *Bluetooth*): 19 hours or 15,000 scans *(battery performance may vary depending on vibrate settings and work environment)*

Environmental Characteristics	
Operating Temperature	+32 to +122°F (0 to +50°C) *Temperature range may vary depending on shelf life of batteries.*
Storage Temperature	-22 to +158°F (-30 to +70°C)*
Relative Humidity	5% to 95% non-condensing
Ambient Light	Sunlight: 9690 lux, Artificial light: 4845 lux
Drop Specification	7Ci: 1m (3.3 ft) 7Di(Rx): 2m (6.6 ft)
Antimicrobial Rating (JIS Z2801:2000 Test) Biosafe HM4100, EPA# 83019-1	2.49 on MSRA 6.07 if cleaned with Sani-Cloth Plus wipes

Operating System, Device and Bluetooth Mode Support*			
OS	OS Version / Compatible Devices	*Bluetooth* HID Support	*Bluetooth* SPP Support
Windows Embedded Handheld	6.x	✓	✓
Windows 8, RT, 7, Vista, XP	32 bit and 64 bit	✓	✓ except RT
iOS	• iPod touch (4th generation), iPod touch (3rd generation) • iPhone 5, iPhone 4S, iPhone 4, iPhone 3GS (iPhone 3G not supported) • iPad mini • iPad (3rd generation), iPad 2, iPad	✓	✓ CHS must be in iOS mode
Android OS	2.1 and later	✓ Android 2.2 and later with support for *Bluetooth* HID	✓ Android 2.1 and later
BlackBerry OS	5.00.714 or later for Bold 9700 *(other models not tested with SocketScan 10, may require previous software version)*	×	✓
QNX	BlackBerry PlayBook	✓	×

Linux, Mac OS and most other OS not included in chart work with CHS in Bluetooth HID mode.

Barcode Support	
Symbologies	Bookland EAN (ISBN / EAN-13), Chinese 2 of 5, Codabar, Code 11, Code 128, Code 39, Trioptic Code 39, Code 39 Full ASCII, Code 93, Discrete 2 of 5, GS1 DataBar (RSS), GS1-128 (UCC-128 / EAN-128), Interleaved 2 of 5, Inverse 1D, Matrix 2 of 5, MSI, UPC / EAN / JAN
Vehicle Identification Number (VIN)	Supported
Scanning Barcodes on Device Screens	Supported

Scanner Performance	
Scanner Type	Linear Imager (1D)
Scan Angle	53.3 ±3°
Scan Repetition Rate	5 scans/sec
Optical Resolution	5 mil minimum
Decode Distance	2.25 to 20 inches (5.7 to 50.8 cm) *Depends on symbol density, symbology, W-N Ratio, label media, and scan angle*
Vibrate Mode	Provides tactile feedback for good read.

Bluetooth Characteristics		
Interface Standard	*Bluetooth* Human Interface Device (HID) and Serial Port Profile (SPP) Default mode: HID Keyboard class device	
Protocol	*Bluetooth* 2.1 with Enhanced Data Rates (EDR) 2.45 GHz ISM band, supports Advanced Frequency Hopping (AFH)	
Radio Range	Up to 330 ft (100 m), depending on environment	
Security	56 bit encryption	
RF Power	Class 1 radio; Typical Output: 12 dbm	
Bluetooth Stack Support for Windows & Mac OS	Windows Embedded Handheld: Microsoft, Broadcom v1.8.0.6501 or v1.9.3	
	Windows PC: Microsoft, Toshiba 4.00.34, 5.00.6F or later, Broadcom 5.1.0.1700 or later (*Bluetooth* 2.1 for best results)	
	Mac OS: v2.2.4f3 (v1965)	

Certification/Compliance	
Electrical Safety	Certified to IEC 60950-1, UL 60950-1, CAN/CSA C22.2, EN60950-1
Environmental	RoHS
EMI/RFI	FCC Part 15 Class C, RSS 210, iCES 003, C-Tick, CISPR 22, CE EN55022, EN55024, TELEC
LED Safety	IEC 60825-1, EN 60825-1
Apple iOS	Apple iOS certification for iPad, iPad mini, iPhone, iPod touch
Bluetooth SIG	*Bluetooth* QD ID B0164000

About Bluetooth Range

This product features a powerful Class 1 *Bluetooth* radio to provide the maximum possible range. As with all wireless technologies, the connection range can vary widely depending on many factors such as the brand and placement of the host device, the type and size of physical obstacles and the presence and activity level of competing radio transmissions.

In range testing of this product while connected to a variety of typical host devices with Class 1 radios, functional connection distances from 18 to 100+ ft have been experienced depending on the environment. The following conditions appear to reduce the *Bluetooth* connection range:

- The presence of soft, absorbent materials such as paper, fiberglass insulation, foam material in office cubical walls, carpeting and, to a lesser extent, even sheetrock and wood construction materials.
- Human bodies or containers of liquid positioned between the host and the CHS.
- The presence and activity level of competing *Bluetooth,* 802.11 (Wi-Fi) or other (proprietary) systems using the same 2.4 GHz frequency.
- Metal in a grid pattern, such as chain link fencing or chicken wire. This type of material may block the *Bluetooth* (or Wi-Fi) signal completely.

APPENDIX B
SAFETY AND USAGE TIPS

Scanning Tips
Practice to determine the best scanning distance for your type of barcode.

Scanning Distance

- The best scanning distance varies depending on barcode size, symbology, label media, W-N Ratio, and scan angle. Check the Decode Zone in Appendix D to determine the proper distance between the scanner and barcode.
- The larger the barcode, the further away you should position the scanner.
- The tighter the bars of the barcode, the closer you should position the scanner.

About Bluetooth and Health
Bluetooth wireless technology allows you to use short-range radio signals to connect a variety of devices, such as barcode scanners, mobile phones, Pocket PCs, notebook computers, printers, LAN access points, and many other devices at home or work. These radio signals replace the cables that have traditionally connected these devices.

Bluetooth products have small radio transmitters and receivers. Output power is normally very low, only 15.75 mW. This gives a working range of approximately 10 meters.

The maximum exposure levels from *Bluetooth* products are far below recommended safety guidelines. At most, typical *Bluetooth* devices (15.75 mW) reach only one percent of the prescribed safety levels.

Product Care
- Do not expose your product to liquid, moisture or extreme humidity.
- Do not expose your product to extreme high or low temperatures.
- Do not expose your product to lit candles, cigarettes, or cigars, or to open flames, etc.
- Do not drop, throw or try to bend the product, as rough treatment could damage it.
- Do not paint your product, as the paint could obstruct parts and prevent normal use.
- Do not attempt to disassemble your product: a broken warranty seal will void the warranty. The product does not contain consumer serviceable components. Should your CHS need service, contact Socket technical support at: http://support.socketmobile.com
- Treat your product with care. Keep in a clean and dust-free place.
- Changes or modifications of this product, not expressly approved by Socket, may void the user's authority to operate the equipment.

Antenna Care
Do not place a metallic shield around the Socket *Bluetooth* Cordless Hand Scanner since it will reduce the radio transmission efficiency.

Efficient Use
For optimum performance, please make sure that there is no metal surrounding your Socket *Bluetooth* Cordless Hand Scanner.

Driving

RF energy may affect some electronic systems in motor vehicles, such as car stereo, safety equipment, etc. Check with your vehicle manufacturer to be sure that the Socket *Bluetooth* Cordless Hand Scanner will not affect the vehicle's electronics.

Aircraft

- Turn off your Socket *Bluetooth* Cordless Hand Scanner before boarding any aircraft.
- To prevent interference with communications systems, you must not use your Socket *Bluetooth* Cordless Hand Scanner while the plane is in the air.
- Do not use it on the ground without permission from the crew.

Radio Frequency Exposure

Your Socket *Bluetooth* Cordless Hand Scanner contains a radio transmitter and receiver. When in operation, it communicates with a *Bluetooth* enabled mobile computer by receiving and transmitting radio frequency (RF) magnetic fields in the frequency range 2400 to 2483.5 MHz. The output power of the radio transmitter is 15.75 mW. The Socket *Bluetooth* Cordless Hand Scanner is designed to be in compliance with the RF exposure limits set by national authorities and international health agencies[1] when installed or used separately from other antennas or radio transmitters.

[1] Examples of RF exposure standards and guidelines:

ICNIRP, "Guidelines for limiting exposure to time-varying electric, magnetic, and electromagnetic fields (up to 300 GHz)", International Commission on Non-Ionizing Radiation Protection (ICNIRP), Health Physics, vol. 74, pp 494-533, April 1998.

99/519/EC, EU Council Recommendation on the limitation of exposure to the general public to electromagnetic fields 0 Hz – 300 GHz, Official Journal of the European Communities, July 12, 1999.

ANSI/IEEE C95.1-1992, "Safety levels with respect to human exposure to radio frequency electromagnetic fields, 3 kHz to 300 GHz", The Institute of Electrical and Electronics Engineers, Inc., New York, 1991.

FCC Report and Order, ET Docket 93-62, FCC 96-326, Federal Communications Commission (FCC), August 1996.

Radiocommunications (Electromagnetic Radiation Human Exposure) Standard 1999, Australian Communications Authority (ACA), May 1999.

APPENDIX C
BARCODE LABEL SPECIFICATIONS

All barcode symbols/labels should satisfy the appropriate AIM Uniform Symbology Specification.

Note: The CHS 7Ci, 7Di and 7DiRx can also scan barcodes on device screens.

Background Substrate:
The barcode symbol should be printed on material (media) that is reflective and has a matte (not glossy) finish. A background diffuse reflectance of at least 70% to 80% is desirable for optimum contrast. Retro-reflective media should be used to obtain decode distances greater than 36 inches.

Ink Color and Type:
The inked bars should not exceed 25% reflectance at the wavelength that is being used for reading, whether printed with black ink or colored ink. The reflectance value should not vary more than 5% within the same character.

Voids and Specks:
The code should be printed clearly, free of voids, specks, blemishes and lines that could "fool" the scanner. Specks or blemishes in the white spaces, or false or missing bar sections could be interpreted by the reading equipment as part of the code. Generally, the width of such flaws is more serious than the height. Code symbols/ labels should be rejected if these defects are present.

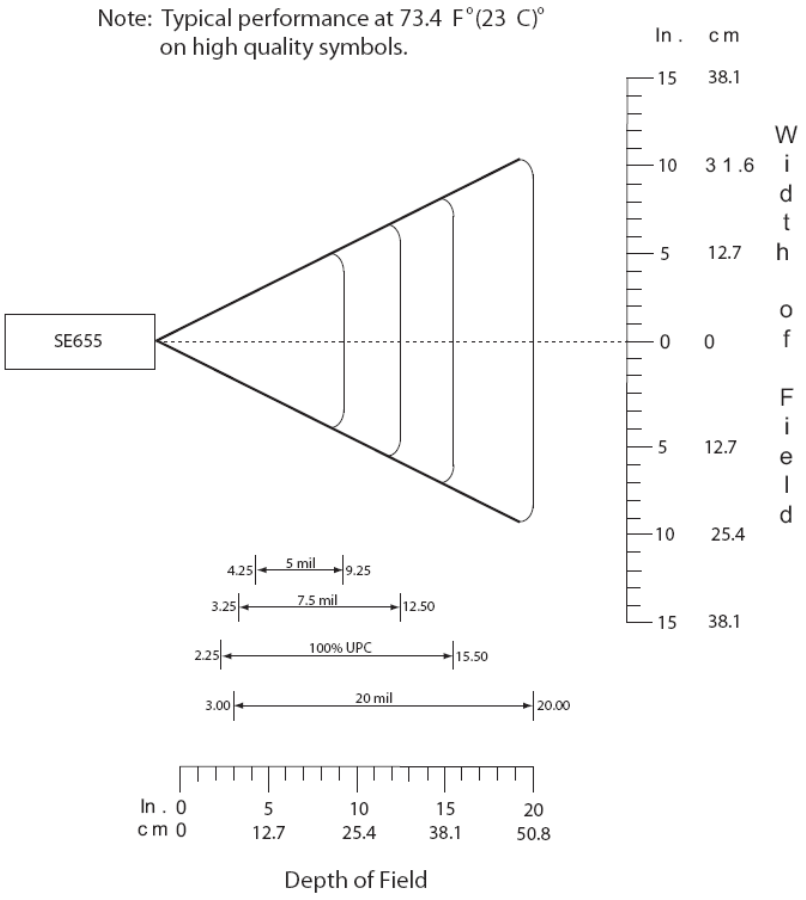
Definition:
The bars in the barcode symbol should be well defined. Their edges should not be rough or fuzzy, so that the bars and spaces have the proper widths intended for the barcode symbology used.

Contrast:
Background reflectance (that of the substrate on which the codes are printed) should always provide a good contrast relative to the ink reflectance (that of the code bars). The difference between the two should be at least 37.5% at the wavelength used for reading.

Tolerance:
The ratio of the widths of bars and spaces in a barcode symbol must conform to the appropriate AIM barcode specifications and can cause problems if not correct throughout the barcode. Problems can occur when bar edges are smeared or rough, or when they exhibit voids.

APPENDIX D
DECODE ZONE

The decode zone for the CHS 7Ci, 7Di and 7DiRx is shown below. The minimum element width ("X Dimension" or barcode "size") is the width in thousandths of an inch (mils) of the narrowest element (bar or space) in the symbol. The figures shown are the typical scanning distances (depths of field) for selected barcode sizes. The maximum usable length of a barcode symbol (Width of Field) at any given range is also shown.



*Minimum distance determined by symbol length and scan angle

APPENDIX E
COMMAND BARCODES

Scan command barcode(s) to quickly configure the CHS 7Ci, 7Di or 7DiRx.
By default, the CHS 7Ci, 7Di and 7DiRx are in HID mode as a Keyboard device.

Many of the command barcodes only work with a scanner in a particular Bluetooth mode as indicated by the header row of each table.

- **All Bluetooth Connection Modes OK**
- **Scan only with CHS in SPP or iOS Mode**
- **Scan only with CHS in HID Mode**

IMPORTANT! Make sure the CHS is not connected to computer / device before scanning a command barcode!

By default, the CHS is in HID mode as a Keyboard device.

You may want to cover adjacent barcodes before scanning a command barcode to prevent scanning the wrong code.

For scanners in Bluetooth SPP or iOS mode, you can alternatively configure some settings by using the Scanner Settings app.

The CHS can only be paired with one device at a time. To use the CHS with a different device, see Appendix F for unpairing instructions.

Bluetooth Connection Modes	
SPP Mode Configures the CHS to Serial Port Profile (SPP) mode. *Required for BlackBerry, optional for Windows and Android.*	 #FNB00F40000#
HID Mode *(default)* Configures the CHS to Human Interface Device (HID) mode. The CHS will be discoverable as a Keyboard to other *Bluetooth* devices. *Required for Apple iOS, Mac OS.*	 #FNB00F40001#
HID-Peripheral Changes a CHS in HID-Keyboard mode to HID-Peripheral mode. *Optional for Windows and Android.*	 #FNB0001000500#
HID-Keyboard *(default)* Changes a CHS in HID-Peripheral mode to HID-Keyboard mode. *Required for Mac OS, optional for Apple iOS.*	 #FNB0001000540#
iOS Mode Changes a CHS to iOS mode. *Required for Apple iOS applications developed with SocketScan 10 SDK.*	 #FNB00F40002#

Bluetooth Connection Roles — For SPP or iOS Mode Only	
Acceptor *(default)* Configures the CHS to accept a *Bluetooth* connection puts the CHS in discoverable mode.	 #FNA#
Initiator Configures the CHS to initiate a connection to a computer / device with the Bluetooth Address specified in the barcode. The barcode must be formatted in Code 128 and contain the data #FNIaabbccddeeff# such that aabbccddeeff is the Bluetooth Address of the computer/device you want to connect to the CHS.	You must create a custom barcode for each computer / device that you want to connect to the CHS. Use barcode generating software or website (e.g., http://barcode.tec-it.com))

Automatic Reconnection Settings	
ENABLE Automatic Reconnection from CHS *(default)* Configures the CHS to automatically initiate a connection to the last paired computer / device after the CHS is powered on.	 #FNB012650#
DISABLE Automatic Reconnection from CHS Configures the CHS to wait for a computer / device to initiate a *Bluetooth* connection after the CHS Is powered on.	 #FNB012610#

After scanning the Enable/Disable Automatic Reconnection from CHS command barcode above, power off and power on the CHS to make sure it is configured properly!

Factory Defaults	
Factory Reset Configures the CHS to revert all settings to factory defaults. The CHS will power off after scanning this barcode.	 #FNB00F0#

Data Suffix — For HID Mode	
Data As Is Configures the CHS to return only the decoded data (i.e., no prefix or suffix).	 #FNB00F509C60408FFEE01EB000000#
Suffix – Carriage Return *(default)* Configures the CHS to add a carriage return after decoded data.	 #FNB00F50BC60408FFEE01680DEB040000#
Suffix – Line Feed Configures the CHS to add a line feed after decoded data.	 #FNB00F509C60408FFEE01EB030000#
Suffix – Carriage Return & Line Feed Configures the CHS to add a carriage return and line feed after decoded data.	 #FNB00F509C60408FFEE01EB010000#
Suffix – Tab Configures the CHS to add a tab after decoded data	 #FNB00F50BC60408FFEE016809EB040000#

Data Suffix — For SPP or iOS Mode	
Data As Is (Default) Configures the CHS to return only the decoded data (i.e., no prefix or suffix).	#FNB00F509C60408FFEE01EB000000#
Suffix – Carriage Return Configures the CHS to add a carriage return after decoded data.	#FNB00F50BC60408FFEE01680DEB040000#
Suffix – Tab Configures the CHS to add a tab after decoded data	#FNB00F50BC60408FFEE016809EB040000#
Suffix – Carriage Return & Line Feed Configures the CHS to add a carriage return and line feed after decoded data.	#FNB00F50DC60408FFEE01680D6A0AEB060000#

The Data Suffix – For SPP or iOS Mode command barcodes above only work with Revision B or later of the CHS 7Ci! They work with all Revisions of the CHS 7Di and 7DiRx.

Power Button Double Press Key Combination — For HID Mode Only		
Scan to Enable WITH BEEP	Description	Scan to Enable WITHOUT BEEP
#FNB013A0601011D000000000000#	CTRL + Z	#FNB013A0201011D000000000000#
#FNB013A0601010400000000000#	CTRL + A	#FNB013A0201010400000000000#
#FNB013A0601202B000000000000#	SHIFT + TAB	#FNB013A0201202B000000000000#
#FNB013A0601011600000000000#	CTRL + S	#FNB013A0201011600000000000#

Good Scan Indicators – For HID Mode		
Scan to Enable	Description	Scan to Disable
#FNB01190E0001000300078004B#	Beep after Decoding Data *(default)*	#FNB01190E0001000000078004B#

Good Scan Indicators — For SPP or iOS Mode		
Scan to Enable	Description	Scan to Disable
#FNB01190E0001000300078004B#	Beep after decoding data *(default)*	#FNB01190E0001000000078004B#
#FNB011904000100010078004B#	Beep after computer / device acknowledges a successful scan	#FNB011904000100000078004B#

VIN (Vehicle Identification Number) Prefix Removal — For HID Mode Only		
Scan to Enable	Description	Scan to Disable
#FNB01370001#	Return only the last 17 characters of a Code 39 barcode.	#FNB01370000#

Apple iOS Onscreen Keyboard — For HID Mode Only		
Scan to Enable	Description	Scan to Disable
With Beep when onscreen keyboard appears #FNB013A0500000000000000000000#	Double-press CHS power button to access onscreen keyboard of Apple device. *(default with beep)*	#FNB013A0000000000000000000000#
No Beep when onscreen keyboard appears #FNB013A0100000000000000000000#		

HID Keyboard Language – For HID Mode Only	
Microsoft US – English (Default)	#FNB01430001#
French	#FNB01430002#
German	#FNB01430003#
Spanish	#FNB01430004#

Formatted Table

The command barcodes above are for enabling Microsoft Windows Keyboard Layouts for different languages.

Data Mode — For SPP Mode Only	
Packet Mode *(default)* Configures the CHS to transmit decoded data in packet format.	#FNB013401#
Raw Mode Configures the CHS to transmit decoded data in raw (unpacketed) format. **DO NOT scan this barcode in iOS mode.**	#FNB013400#

The command barcodes above are for SPP mode only, DO NOT scan them in iOS or HID mode.

APPENDIX F
SPECIAL BUTTON SEQUENCES

Restoring Factory Defaults

To restore the CHS to its factory defaults, do the following:

1. Power on the CHS.

2. While pressing the trigger button, **briefly press and release the power button**.
3. After about 15 seconds, the CHS will beep. Release the trigger button. If you performed the actions correctly, the CHS will beep 5 times and power off.
4. The next time you power on the CHS, it will take longer than normal. After the CHS finishes powering on, it will have factory default settings (HID mode for Keyboards).

Unpairing the CHS

It is possible to use the CHS with various devices, however, the CHS can only be paired to one device at a time. If your CHS is paired to one device and you would like to pair to a different device, it will be necessary to UNPAIR before you can re-pair.

1. Power on the CHS.
2. Press and hold down the trigger button. **Press and hold down the power button until you hear 3 beeps**.

3. After you hear 3 beeps, release both buttons. The CHS will unpair and automatically power off. The next time you power on the CHS, it will be discoverable.

APPENDIX G
CONNECTION BARCODES

If the CHS supports SPP mode for your OS, you can generate and scan special barcodes to quickly connect to a computer or device.

1. Power on the CHS. Make sure the CHS is in SPP mode. If needed, use the appropriate Command Barcode to change the scanner mode.

2. Enable *Bluetooth* on your computer or device.

3. Find out the Bluetooth Address of your computer or device. You can use the *Bluetooth* software to find this out.

4. Open SocketScan 10. In SocketScan 10 Settings, make sure an incoming COM is selected.

5. Use a barcode generating application or website (e.g., http://barcode.tec-it.com/) to create and print a barcode with the following properties.

   Symbology Code 128

   Data #FNIxxxxxxxxxxxx#

   Where the xxxxxxxxxxxx is the 12 character *Bluetooth* Device Address of the computer or device you want to connect to.

   Barcode (Module) Width: approx. 1 inch or 3 cm recommended

6. Scan the barcode that you created.

7. If prompted, accept the *Bluetooth* connection.

8. If prompted for a passkey, enter 0000 (four zeroes).

APPENDIX H
TROUBLESHOOTING

GENERAL TROUBLESHOOTING – ALL OS

SYMPTOM: *When I try to scan, I aim the beam at the barcode, but no data appears on my screen, and the beam eventually turns off.*

POSSIBLE REASON	SOLUTION
The scanner is too close or too far from the barcode, or at an incorrect angle	Practice scanning at different distances and angles so you get accustomed to the most effective position.
The barcode is incorrectly formatted, damaged or poorly printed.	Try scanning a barcode that is correctly formatted, printed clearly, and in good condition.
The barcode symbology may be disabled or not supported by the CHS.	Enable the symbology. If you are using the CHS in SPP mode, use the symbology selector feature of SocketScan software. If you are using the CHS in HID mode, please refer to the SocketScan Advanced Programming Guide for instructions. If you do not know the symbology of the barcode, and the CHS works in SPP mode for your computer / device, you can use the Scanner Settings utility to test scanning the barcode and determine its symbology.
You don't have an application open to scan data into.	Open an application (e.g., a spreadsheet). Place the cursor where you want to enter data. Try scanning again.

SYMPTOM: *My computer/device cannot find the CHS, and/or I get an error message saying that there are connection problems.*

POSSIBLE REASONS	SOLUTION
The computer/device is too far from the CHS.	Move the devices closer together, within a range of 10-15 m.
The CHS is not powered on.	Power on the CHS.
You are using the CHS in SPP mode and have assigned another device as your default *Bluetooth* serial device.	Remove any settings that assign another device as your default *Bluetooth* serial device.
Your computer/device does not have *Bluetooth* enabled and/or the *Bluetooth* software is not running.	Enable *Bluetooth* on your computer/device and make sure the *Bluetooth* software is running.
The CHS is already paired with another computer/device.	Unpair the CHS. See Appendix F for instructions.

SYMPTOM: *The Bluetooth device search has found multiple CHS devices, and I don't know which one to choose.*

POSSIBLE REASONS	SOLUTION
The CHS is not paired with a host system, and there are multiple CHS devices in range.	Power off the CHS device(s) you do not want to connect to and the *Bluetooth* device search. Alternatively, If the CHS works in SPP mode with your computer/device, you can use the SocketScan Scanner Settings utility to change the scanner's *Bluetooth* friendly name to something you can easily recognize.

SYMPTOM: *When I scan a barcode, odd behaviors occur, such as different applications seem to be invoked in my system, and/or special characters are displayed in the application unexpectedly.*

POSSIBLE REASON	SOLUTION
In HID mode, the CHS will only properly read printable ASCII characters. Non-printable ASCII characters or extended characters cannot be interpreted by the scanner. Printable ASCII characters are numbers between 0x20 and 0x7E, and any ASCII characters that fall outside of this scope are considered as non-printable.	Use the SocketScan 10 SDK to develop a custom application that supports non-printable ASCII characters. Learn more about the SDK at: http://www.socketmobile.com/products/sdk/

SYMPTOM: *When I press the Shift, Caps Lock or Ctrl key on my keyboard, it affects the data output from my CHS to my computer.*

POSSIBLE REASON	SOLUTION
You are using the CHS in HID mode as a Keyboard class device.	Determine how your computer implements HID keyboard devices.

SYMPTOM: *When I scan some barcodes with the CHS in SPP mode, the data is truncated or some characters are corrupted.*

POSSIBLE REASON	SOLUTION
The barcode data has illegal characters. SocketScan 10 is designed to read ASCII characters between 0x20 (Space) and 0x7F.	If you have a truncated barcode, you can view the raw data without any conversions by using the Test option of Scanner Settings, with hexadecimal format selected. If you need to scan data that is not 7 bit ASCII (e.g., Double Byte, MultiByte or UNICODE for Kanji, simplified Chinese, etc.) use the SocketScan 10 SDK.

TROUBLESHOOTING FOR WINDOWS PC

SYMPTOM: *I am using the CHS in SPP mode and get the "CHS not connected"* *icon in the system tray and can't trigger the scanner or scan any barcodes.*

POSSIBLE REASON	SOLUTION
Your PC is not connected to the CHS.	Make sure the CHS is on, in range and has enough battery power. Try to reconnect.

SYMPTOM: *When I try to access SocketScan 10, I get an error message saying the installed version of the application could not be determined.*

POSSIBLE REASON	SOLUTION
You installed SocketScan 10 while logged into a different account.	Log into the account you used while installing SocketScan1 Alternatively, you can install SocketScan 10 for every user account that plans to use the CHS.

SYMPTOM: *After I try to connect, SocketScan 10 reports the Friendly Name of the last CHS connected to the computer, and I cannot modify any advanced settings or symbologies.*

POSSIBLE REASONS	SOLUTION
This is a known issue in SocketScan 10 for Windows XP and Vista.	Close and restart SocketScan 10 and reconnect.

SYMPTOM: *The Bluetooth software indicates that the CHS has connected, but when I try to scan data, it does not enter into my application.*

POSSIBLE REASONS	SOLUTION
The CHS is in SPP mode, and your PC has multiple incoming *Bluetooth* serial ports enabled.	Use your *Bluetooth* utility to disable extra incoming *Bluetooth* serial ports. In SocketScan Settings, click **Ports** to access the *Bluetooth* utility.
The CHS is in SPP mode, and SocketScan 10 Is not running.	Start SocketScan 10. Click on the desktop shortcut icon.
The keyboard wedge is not enabled in SocketScan Settings.	Make sure **Use keyboard wedge** is selected.
The CHS is in SPP mode but not assigned to an incoming *Bluetooth* serial COM port.	In SocketScan Settings, make sure the CHS is assigned to an incoming *Bluetooth* serial COM port. If your computer has the Toshiba *Bluetooth* stack, in SocketScan Settings, click **Ports.** Make sure the CHS is assigned to a *Bluetooth* port named **LocalCOM-Server**.

SYMPTOM: *The SocketScan 10 system tray icon does not appear by default after I install the software.*

POSSIBLE REASONS	SOLUTION
Bluetooth was not fully initialized before launching SocketScan 10.	Make sure *Bluetooth* is enabled. Open SocketScan 10 Settings by navigating to: **Your local drive:\Program Files\Socket Mobile\SocketScan 10\Bin\Windows**. Click on **SocketScan Settings.exe.** Make sure **Use keyboard wedge** and **Show keyboard wedge icon in task tray** are selected and click **OK**.

SYMPTOM: *After the CHS connects, an error message says the application failed to initialize properly.*

POSSIBLE REASONS	SOLUTION
Your system is missing .NET Framework (0xc0000135)	Install the latest version of .NET Framework with the appropriate version of Runtime software.

SYMPTOM: *When I try to install SocketScan 10, an error message says Access is denied, or I have insufficient privileges to complete installation.*

POSSIBLE REASON	SOLUTION
You tried to install SocketScan on a Windows 8, 7 or Vista computer while not logged into an administrative account.	Abort the process. Log into an administrative account and restart the installation.

SYMPTOM*: My CHS no longer connects to my computer.*

POSSIBLE REASONS	SOLUTION
This is a known issue with the Microsoft *Bluetooth* stack in Windows Vista when using a USB *Bluetooth* adapter. *Bluetooth* settings can sometimes become corrupted after the computer suspends and resumes.	Make sure the CHS is discoverable and connectable. In the Microsoft *Bluetooth* software, select the Socket CHS in the *Bluetooth* device list (its status may be "Already Connected"). Click Next. If prompted, enter the passkey 0000 (four zeroes). In the last screen, click Finish. **Do not remove the CHS from the device list and re-add it.**
Your computer with Broadcom (Widcomm) *Bluetooth* stack and *Bluetooth* 2.0 may have a broken link key.	Upgrade to a Broadcom *Bluetooth* stack using *Bluetooth* 2.1 (a dongle) or switch to the Microsoft *Bluetooth* stack (with *Bluetooth* 2.1 or 2.0).

SYMPTOM: *When I try to connect the CHS to the PC, I get an error message saying that SocketScan 10 could not open the COM port or had problems with COM port assignments.*

POSSIBLE REASONS	SOLUTION
SocketScan 10 is competing with another application for the same COM port.	Make sure each COM port is assigned to only one device. If needed, use the SocketScan 10 Settings utility to assign the CHS to a different incoming *Bluetooth* serial COM.
You are running SocketScan 7 and SocketScan 10 simultaneously.	Close SocketScan 7 and try reconnecting again.
You are trying to run SocketScan 10 on Windows 7 or Windows Vista in user mode (Error 53).	Run SocketScan 10 with administrative privileges. Right-click on the SocketScan 10 desktop shortcut. Click **Properties**. Click **Advanced**. Select **Run as administrator**. Click **OK**.

SYMPTOM: *When I try to open Scanner Settings, an error message says that SocketScan failed to set the scanner configuration mode.*

POSSIBLE REASONS	SOLUTION
CHS is connected to Toshiba *Bluetooth* stack, and SocketScan 10 is running.	Ignore the message and click OK. The Scanner Settings application will launch and work properly.

SYMPTOM: *When I open SocketScan 10, an error message says it cannot determine the Bluetooth stack.*

POSSIBLE REASONS	SOLUTION
Bluetooth is not enabled on your PC.	Enable *Bluetooth* on your PC. Make sure *Bluetooth* is fully initialized before opening SocketScan 10.

SYMPTOM: *I installed SocketScan 10, but the shortcut icon does not appear on my desktop.*

POSSIBLE REASONS	SOLUTION
You incorrectly uninstalled a copy of SocketScan 10 before installing your current copy of SocketScan 10.	Make sure SocketScan 10 is not running. Uninstall SocketScan 10. When prompted, make sure to restart the computer. Re-install SocketScan 10.

TROUBLESHOOTING FOR WINDOWS EMBEDDED HANDHELD

For help using SocketScan 10 for Windows Embedded Handheld, tap on the icon.

SYMPTOM: *I am using the CHS in SPP mode and get the "CHS not connected"* *icon in the task tray of the Today screen and can't trigger the scanner or scan any barcodes.*

POSSIBLE REASON	SOLUTION
Your SoMo is not connected to the CHS.	Make sure the CHS is on and in range and has enough battery power. Try to reconnect.
You are trying to connect the CHS with an HP iPAQ 100 or 200 series Pocket PC.	The first release of SocketScan 10 for Windows Mobile is only compatible with the Socket SoMo 650. Check back for HP iPAQ compatibility in future releases.

SYMPTOM: *The Bluetooth software indicates that the CHS has connected, but when I try to scan data, it does not enter into my application.*

POSSIBLE REASONS	SOLUTION
The CHS is in SPP mode, and the SoMo has multiple incoming *Bluetooth* serial ports enabled.	Use your *Bluetooth* utility to disable extra incoming *Bluetooth* serial ports.
The CHS is in SPP mode, and SocketScan 10 Is not running.	Start SocketScan 10. Tap **Start | Programs | SocketScan 10 | SocketScan 10**.

SYMPTOM: *When I try to launch Scanner Settings, I get an error message saying that I need to close the Keyboard Wedge application.*

POSSIBLE REASONS	SOLUTION
The CHS is in SPP mode and connected to the SoMo when you try to launch Scanner Settings.	Close the Keyboard Wedge application and try launching Scanner Settings again.

SYMPTOM: *While using Scanner Settings, the CHS disconnects, and the Scanner Settings utility is non-responsive.*

POSSIBLE REASONS	SOLUTION
You tried to switch from one SocketScan application to another by using an assigned launch button.	Only use the pop-up menu from the SocketScan task tray icon to switch between SocketScan applications.

SYMPTOM: *When I try to connect the CHS to my SoMo, I get an error message saying that an incompatible scanner tried to connect.*

POSSIBLE REASONS	SOLUTION
The CHS is in SPP mode, and the SoMo does not have any *Bluetooth* serial ports free.	Free up a *Bluetooth* serial port for the CHS connection.
The CHS is incompatible, probably an older version.	Use the correct version of SocketScan for your CHS version, or upgrade your CHS to v3.

SYMPTOM: *When I try to use SocketScan 10 Keyboard Wedge or Scanner Settings in landscape mode, it doesn't appear correctly.*

POSSIBLE REASONS	SOLUTION
This release of SocketScan 10 does not support landscape mode for Windows Mobile.	Use your device in Portrait mode and upgrade your SocketScan 10 software when a later release is available.

SYMPTOM: *The CHS won't work with my device running Windows Phone 7.*

POSSIBLE REASONS	SOLUTION
Windows Phone 7 devices do not support *Bluetooth* HID or SPP connections. For a list of supported *Bluetooth* profiles on Windows Phone 7, visit: http://support.microsoft.com/kb/2449475	Unless Microsoft adds HID or SPP support to Windows Phone 7, you will need to use a different device with the CHS.

TROUBLESHOOTING FOR ANDROID OS

SYMPTOM: *The CHS won't reconnect to my Samsung Galaxy or Dell Streak any more.*

POSSIBLE REASON	SOLUTION
This is a known issue for *Bluetooth* for these devices.	Disable and enable *Bluetooth* on your Android device and try again.

TROUBLESHOOTING FOR BLACKBERRY

SYMPTOM: *When I try to enable or disable Vibrate Mode in Scanner Settings, I get error message about properties 131340 failing to complete.*

POSSIBLE REASON	SOLUTION
You are using a CHS v2 scanner with SocketScan 10.	SocketScan 10 is compatible only with CHS v3. Either downgrade your software to SocketScan 7 or upgrade your scanner to CHS v3.

SYMPTOM: *When I perform a Bluetooth device search, the CHS does not appear in the found devices list.*

POSSIBLE REASON	SOLUTION
You are using the BlackBerry Storm 9530 or other smartphone with BlackBerry OS version previous to 5.00.714	Upgrade your BlackBerry OS to version 5.00.714 or later.

SYMPTOM: *.When I try to connect the CHS, an error message says that SocketScan 10 can't connect to unknown device.*

POSSIBLE REASON	SOLUTION
The CHS is already paired to another device.	Unpair the CHS (see Appendix F for instructions) and delete any "Unknown devices" in the *Bluetooth* paired devices list.

APPENDIX I
TECHNICAL SUPPORT

If you have trouble installing or using the CHS, Socket has different support options to help you.

Online Knowledge Base: Search for articles, Frequently Asked Questions or Hot Topics 24 hours a day. http://support.socketmobile.com/EU_S1a.asp

Online Requests: Register your product and submit a question to our Technical Support Team. http://support.socketmobile.com

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EXCLUDES: Consumables such as batteries, removable cables, cases, straps, stylus, memory cards, chargers and CF-to-PC Card adapters (90 day coverage only)

An extended warranty is available separately for the *Bluetooth* Cordless Hand Scanner. For more information, please visit: http://support.socketmobile.com

Incompatibility is not a defect covered by the Socket warranty. During the warranty period, Socket will, at its option, repair or replace the defective product at no charge when furnished with proof of retail purchase, provided that you deliver the product to Socket or to an authorized Socket Service Center.

The returned product must be accompanied by a return material authorization (RMA) number issued by Socket or by a Socket Service Center. If you ship the product, you must use the original container or equivalent and you must pay the shipping charges to Socket. Socket will pay surface shipping charges back to any location in the contiguous United States. This warranty applies only to the original retail purchaser and is not transferable.

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For warranty information, please visit: http://support.socketmobile.com/

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REGULATORY COMPLIANCE

The Socket *Bluetooth* Cordless Hand Scanner is designed to be compliant with the rules and regulations in locations where they are sold and will be labeled as required. This product is type approved — users are not required to obtain license or authorization before using.

This product has been certified as conforming to technological standards. Therefore, the following actions are punishable by law:

- Disassembly or modification of this product
- Removal of identification labels on the back of the product

The frequency used by this product is also used by industrial, scientific and medical devices, such as microwave ovens, as well as wireless detectors for motion detectors, such as those requiring licenses used on manufacturing lines or similar radio transmitters (all of these wireless devices will be called "other wireless transmitters" below). Most modern electronic equipment (e.g., in hospitals and cars), is shielded from RF energy. However, certain electronic equipment is not.

1. Please ensure that all medical devices used in proximity to this device meet appropriate susceptibility specifications for this type of RF energy.
2. In the unlikely event that there is electronic interference between this system and other wireless transmitters, quickly change the location of operation or stop operating the unit (cease signal transmission).
3. If other electrical interference or related problems occur, contact Socket technical support at http://support.socketmobile.com/

Radio Frequency Interference Requirements
This device complies with part 15 of the FCC rules. Operation is subject to the following conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This device complies with Industry Canada licence-
exempt RSS standard(s). Operation is subject
to the following two conditions: (1) this device may not cause interference, and (2) this devic
e
must accept any interference, including interference that may cause undesired operation of t
he device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne
doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnem
ent.

This equipment is also ETS EN300 328-2, ETS EN301 489-1 and ETS EN301 489-17 compliant. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment.

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his or her own expense.

> This equipment generates and radiates radio-frequency energy. To comply with FCC RF exposure compliance requirements, the following antenna installation and device operating configurations must be satisfied: (1) Users are not permitted to make changes or modify the system in any way, and (2) connecting external antennas to the *Bluetooth* Cordless Hand Scanner is prohibited. This device and its antenna must not be co-located or operated with any other antenna or transmitter.

To comply with Industry Canada RF exposure compliance requirements, the following antenna installation and device operating configurations must be satisfied: The installer of this radio equipment must ensure that the antenna is located or pointed such that it does not emit RF field in excess of Health Canada limits for the general population; consult Safety Code 6, available at Health Canada's website http://www.hc-sc.gc.ca/

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user may try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna of the radio or television.
- Increase the distance separating the equipment and the receiver.
- Connect the equipment to an outlet on a different branch circuit than that of the receiver.
- Consult the dealer or an experienced radio/TV technician for help.

> The user may find the following booklet helpful: *How to Identify and Resolve Radio-TV Interference Problems,* available from the U.S. Government Printing Office, Washington, D.C. 20402.

Canada Certification
The marking of "IC:2394A-CHS1" on the device means: "2394A-CHS1" is the certification number, and the term "IC' before the equipment certification number only signifies that Industry Canada technical specifications were met.

Radio Frequency Interference Requirements – Canada
This Class B digital apparatus meets the requirements of the Canadian Interference-Causing Equipment Regulations. Cet appareil numérique de la Classe B respecte toutes les exigencies du Reglement sur le Matériel Brouilleur du Canada.

CE Marking & European Union Compliance
Products intended for sale within the European Union are marked with a CE Mark which indicates compliance to applicable Directives and European Normes (EN), as follows. Amendments to these Directives or ENs are included: Normes (EN), as follows:

Applicable Directives:
- Radio and Telecommunications Terminal Equipment Directive 1999/5/EC
- Low Voltage Directive 73/23/EEC

Applicable Standards:
- EN 55 022 – Limits and Methods of Measurement of Radio Interference Characteristics of Information Technology Equipment.
- EN 50 082-1 – Electromagnetic Compatibility – General Immunity Standard, Part 1: Residential, Commercial, Light Industry.
- IEC 801.2 – Electromagnetic Compatibility for Industrial Process Measurement and Control Equipment, Part 2: Electrostatic Discharge Requirements.
- IEC 801.3 – Electromagnetic Compatibility for Industrial Process Measurement and Control Equipment, Part 3: Radiated Electromagnetic Field Requirements.
- IEC 801.4 - Electromagnetic Compatibility for Industrial Process Measurement and Control Equipment, Part 4: Electrical Fast Transients Requirements

Battery Warning:
- Your device contains a rechargeable NiMH battery. Never throw the battery into a fire, as that could cause the battery to explode.
- Never short-circuit the battery by bringing the terminals in contact with another metal object. This could cause personal injury or a fire, and could also damage the battery.
- Never dispose of used battery with other ordinary solid wastes. Batteries contain toxic substances.
- Dispose of used battery in accordance with the prevailing community regulations that apply to the disposal of batteries. Cover the metal terminals with insulating tape. (This is to prevent accidental short-circuiting).
- Never expose the battery to any liquid.
- Always keep the battery out of reach of infants or small children.
- Never shock the battery by dropping it or throwing it.
- Dispose of a spent or damaged battery promptly.

Product Disposal
Your device should not be placed in municipal waste. Please check local regulations for disposal of electronic products.

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